



COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Matthew G. Bevin
Governor

Greg Thomas
Secretary

December 1, 2017

CALL NO. 104
CONTRACT ID NO. 171255
ADDENDUM # 1

Subject: Morgan County, STP 4602 095
Letting December 8, 2017

- (1) Revised - Plan sheets - U1- U27
- (2) Revised - Bid Items - Pages 253-256 of 256

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

Plan revisions are available at <http://www.kytcplanroom.com/View/Default.aspx>

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in black ink that reads "Rachel Mills".

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:mw
Enclosures



An Equal Opportunity Employer M/F/D

UTILITY SUMMARY PHASE II - WATER and GAS

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	UI

ITEM	DESCRIPTION	UNIT	SHEET U4	SHEET U5	SHEET U6	SHEET U7	SHEET U8	SHEET U9	SHEET U10	SHEET U11							PROJECT TOTALS	COMMENTS
WATER SUMMARY																		
14003	W CAP EXISTING MAIN	EACH	1	2													3	
14012	W ENCASEMENT STEEL OPEN CUT RANGE 1	L.F.				48											48	
14015	W ENCASEMENT STEEL OPEN CUT RANGE 4	L.F.		52													52	
14019	W FIRE HYDRANT ASSEMBLY	EACH		2													2	
14021	W FIRE HYDRANT REMOVE	EACH		2													2	
14028	W METER 3/4 INCH	EACH	4	5	6	5											20	
14131	W METER SPECIAL	EACH	1	4		1											6	
14039	W PIPE DUCTILE IRON 12 INCH	L.F.		404	600	366											1370	
14056	W PIPE PVC 02 INCH	L.F.				75											75	
14059	W PIPE PVC 06 INCH	L.F.	281	600	645	511	55										2092	
14062	W PIPE PVC 12 INCH	L.F.		357													357	
14080	W SERVICE LONG SIDE 3/4 INCH	EACH	2	3	5	1											11	
14085	W SERVICE SHORT SIDE 3/4 INCH	EACH	3	6	3	5											17	
14089	W TAPPING SLEEVE AND VALVE SIZE 1	EACH	1														1	8" OR LESS
14090	W TAPPING SLEEVE AND VALVE SIZE 2	EACH		2													2	GREATER THAN 8"
14094	W TIE-IN 06 INCH	EACH			1		1										2	
14097	W TIE-IN 12 INCH	EACH		1		1											2	
14102	W GATE VALVE 02 INCH	EACH				2											2	
14104	W GATE VALVE 04 INCH	EACH		1													1	
14105	W GATE VALVE 06 INCH	EACH		2	2	2	1										7	
14108	W GATE VALVE 12 INCH	EACH		2	1	1											4	
14077	W SERVICE LONG SIDE SPECIAL (1-1/4")	EACH		1													1	1 1/4" SERVICE LINE
GAS SUMMARY																		
16008	G ENCASEMENT STEEL OPEN CUT RANGE 1	L.F.	45		42												87	
16015	G PIPE POLYETHYLENE/PLASTIC 02 INCH	L.F.		584	656	350											1590	
16017	G PIPE POLYETHYLENE/PLASTIC 04 INCH	L.F.	406	25													431	
16031	G SERVICE LONG SIDE 01 INCH OR 1-1/4 INCH	EACH				1											1	
16034	G SERVICE LONG SIDE 3/4 INCH	EACH	2	1	2												5	
16039	G SERVICE SHORT SIDE 3/4 INCH	EACH	5	4	1	3											13	
16049	G VALVE POLYETHYLENE/PLASTIC 02 INCH	EACH		1	2												3	
16051	G VALVE POLYETHYLENE/PLASTIC 04 INCH	EACH	1	2	1	1											5	
16084	G TIE-IN W/ BYPASS POLYETHYLENE/PLASTIC 02 INCH	EACH			1												1	
16086	G TIE-IN W/ BYPASS POLYETHYLENE/PLASTIC 04 INCH	EACH	1	1													2	
16056	G VALVE SPECIAL (1")	EACH				1											1	
16022	G MAIN SPECIAL (1-1/4")	L.F.	58														58	
16048	G TIE-IN SPECIAL (1-1/4")	EACH	1														1	
16056	G VALVE SPECIAL (1-1/4")	EACH	1														1	

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 DATE PLOTTED: January 25, 2013
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 MicroStation v8.11.7.180

WEST LIBERTY
 KY 7 - MAIN STREET
 UTILITY SUMMARY - WATER and GAS

UTILITY SUMMARY PHASE II - SANITARY SEWER

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U2

ITEM	DESCRIPTION	UNIT	SHEET U4	SHEET U5	SHEET U6	SHEET U7	SHEET U8	SHEET U9	SHEET U10	SHEET U11							PROJECT TOTALS	COMMENTS
SEWER SUMMARY																		
15000	S BYPASS PUMPING	EACH						1	1								2	
15060	S FORCE MAIN PVC 06 INCH	L.F.								180							180	
15086	S LATERAL CLEANOUT	EACH						2	6	1							9	
15088	S LATERAL LONG SIDE 06 INCH	EACH								1							1	
15090	S LATERAL SHORT SIDE 06 INCH	EACH						2	5	1							8	
15092	S MANHOLE	EACH						2	3	2							7	
15092	S MANHOLE ①	EACH						1									1	
15093	S MANHOLE ABANDON/REMOVE	EACH						2	3	1							6	
15095	S MANHOLE CASTING STANDARD	EACH						4	4	2							10	
15099	S MANHOLE TAP EXISTING	EACH							1								1	
15101	S MANHOLE WITH DROP	EACH						1	1								2	
15101	S MANHOLE WITH DROP ①	EACH						1									1	
15112	S PIPE PVC 08 INCH	L.F.						303	718	49							1070	
15091	S LATERAL SPECIAL	L.S.						1									1	

MicroStation v8.11.7.180 E-SHEET NAME: R0020DSU USER: jgreenwell DATE PLOTTED: January 25, 2013 FILE NAME: G:\ENGR\HD176.07\PHASEII\CAD\TYTBL\GENERAL_SUMMARY.DGN

① MANHOLE HAS BEEN PREPURCHASED AND IS BEING STORED AT THE KYTC MORGAN COUNTY MAINTENANCE GARAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSPORTING MANHOLE TO JOB SITE AND INSTALLATION.

WEST LIBERTY
KY 7 - MAIN STREET
UTILITY SUMMARY - SANITARY SEWER

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U3

GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE LOCATIONS OF ANY AND ALL UTILITIES ENCOUNTERED BY THE FINAL ALIGNMENT OF UTILITY LINES. THE CONTRACTOR SHALL USE CAUTION WHEN EXCAVATING AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THE EXISTING UTILITIES TO KEEP THEM IN SERVICE. IF UTILITIES ARE SHOWN, THE INFORMATION IS GENERAL IN NATURE AND NOT TO BE TAKEN AS AS-BUILTS. ADDITIONAL UTILITIES OTHER THAN THOSE SHOWN WILL BE ENCOUNTERED. CONTRACTOR SHALL CONTACT REPRESENTATIVES OF LOCAL UTILITIES A MINIMUM OF 48 HRS. BEFORE COMMENCING WORK ON THE PROJECT. ALL DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER OR THE ENGINEER.
2. THE CONTRACTOR IS TO VERIFY ALL EXISTING AND FINISHED GRADES AND ELEVATIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
3. WHILE WORKING WITH OR AROUND ASBESTOS CONCRETE (TRANSITE) MAIN, THE CONTRACTOR SHALL CONFORM TO OSHA REGULATIONS GOVERNING THE HANDLING OF HAZARDOUS WASTE.
4. ALL DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. NOT ALL CULVERTS ARE SHOWN. CONTRACTOR SHALL USE CAUTION WHEN WORKING IN THESE AREAS.
5. ALL CONSTRUCTION AND INSTALLATION OF MATERIALS BEING USED SHALL BE IN CONFORMANCE WITH THE PLANS PREPARED BY THE ENGINEER OF RECORD. SUBSTITUTION AND DEVIATION SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LINES AND GRADES REQUIRED FOR THE CONSTRUCTION OF THE SEWER LINES. THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND EQUIPMENT THAT ARE REQUIRED FOR LAYOUT BY THE CONTRACTOR'S FORCES.
7. SOME EXISTING SERVICE CONNECTIONS THAT DO NOT SERVE A HOME OR BUSINESS MAY NOT BE REINSTATED. CONTRACTOR SHALL BE RESPONSIBLE TO RECONNECT ALL ACTIVE LATERAL LINES. OWNER/ENGINEER SHALL MAKE THE DETERMINATION ON RECONNECTION OF NON-ACTIVE CONNECTIONS.
8. BEFORE PURCHASING MANHOLES, THE CONTRACTOR SHALL VERIFY LOCATION, NUMBER, ELEVATION AND SIZE OF ALL LINES ENTERING THE MANHOLES.
9. FINAL LOCATION OF SERVICES, CLEANOUTS, VALVES AND OTHER APPURTENANCES ARE TO BE FIELD LOCATED DURING CONSTRUCTION AND APPROVED BY THE OWNER/ENGINEER.
10. CUSTOMER SERVICE LINES SHALL BE 3/4" SDR-9 CTS POLY TUBING UNLESS OTHERWISE NOTED ON PLANS.
11. REFER TO SPECIAL CONDITIONS FOR REQUIRED MATERIALS.
12. IF THE EXIST. WATER OR GAS IS TO BE OUT OF SERVICE FOR AN EXTENDED PERIOD OF TIME, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY SERVICE TO THE CUSTOMERS UNTIL THE PROPOSED LINE IS IN SERVICE.
13. PROPOSED GAS LINE SHALL BE LOCATED WITHIN THE RIGHT-OF-WAY.
14. GAS LINE CONTRACTOR SHALL BE OQ (OPERATOR QUALIFICATION) CERTIFIED TO WORK ON THE GAS LINE.
15. FINAL LOCATION OF SERVICES, HYDRANTS, ARV'S, VALVES, METERS AND OTHER APPURTENANCES ARE TO BE FIELD LOCATED DURING CONSTRUCTION AND APPROVED BY THE OWNER/ENGINEER.
16. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO DETERMINE THE LOCATION OF PROPOSED WATER AND GAS UTILITIES FOR VACANT LOTS.
17. LOCATION OF GAS AND WATER METERS SHOWN MAY NOT BE ACCURATE. THEREFORE, CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER TO LOCATE SERVICES FOR RECONNECTIONS.
18. GRIP RING RESTRAINTS SHALL BE USED ON ALL WATER LINE FITTINGS. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR PIPE.
19. AT THE CONCLUSION OF THIS PROJECT, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ELECTRONIC SURVEY DATA FROM A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF KENTUCKY. THE PROVIDED DATA SHALL INCLUDE HORIZONTAL AND ELEVATION DATA OF ALL STRUCTURES INVOLVED IN THE PROJECT. THAT DATA SHALL ALSO INCLUDE HORIZONTAL AND ELEVATION DATA FOR WATER LINES, WATER VALVES, WATER METERS, GAS LINE, GAS VALVES, GAS METERS, HYDRANTS AND ANY OTHER ITEMS THAT WOULD BE DEEMED RELEVANT BY THE ENGINEER. THE DATA SHALL BE IN A FORMAT AND COORDINATE SYSTEM STIPULATED BY THE ENGINEER AND SHALL BE PROVIDED TO THE ENGINEER PRIOR TO FINAL PAYMENT TO THE CONTRACTOR.
20. LINES THAT ARE INSTALLED BY DIRECTIONAL BORE SHALL BE LOCATED WITH TRACER WIRE SO IT CAN BE SURVEYED IN FOR RECORD DRAWINGS.

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DATE PLOTTED: January 25, 2013

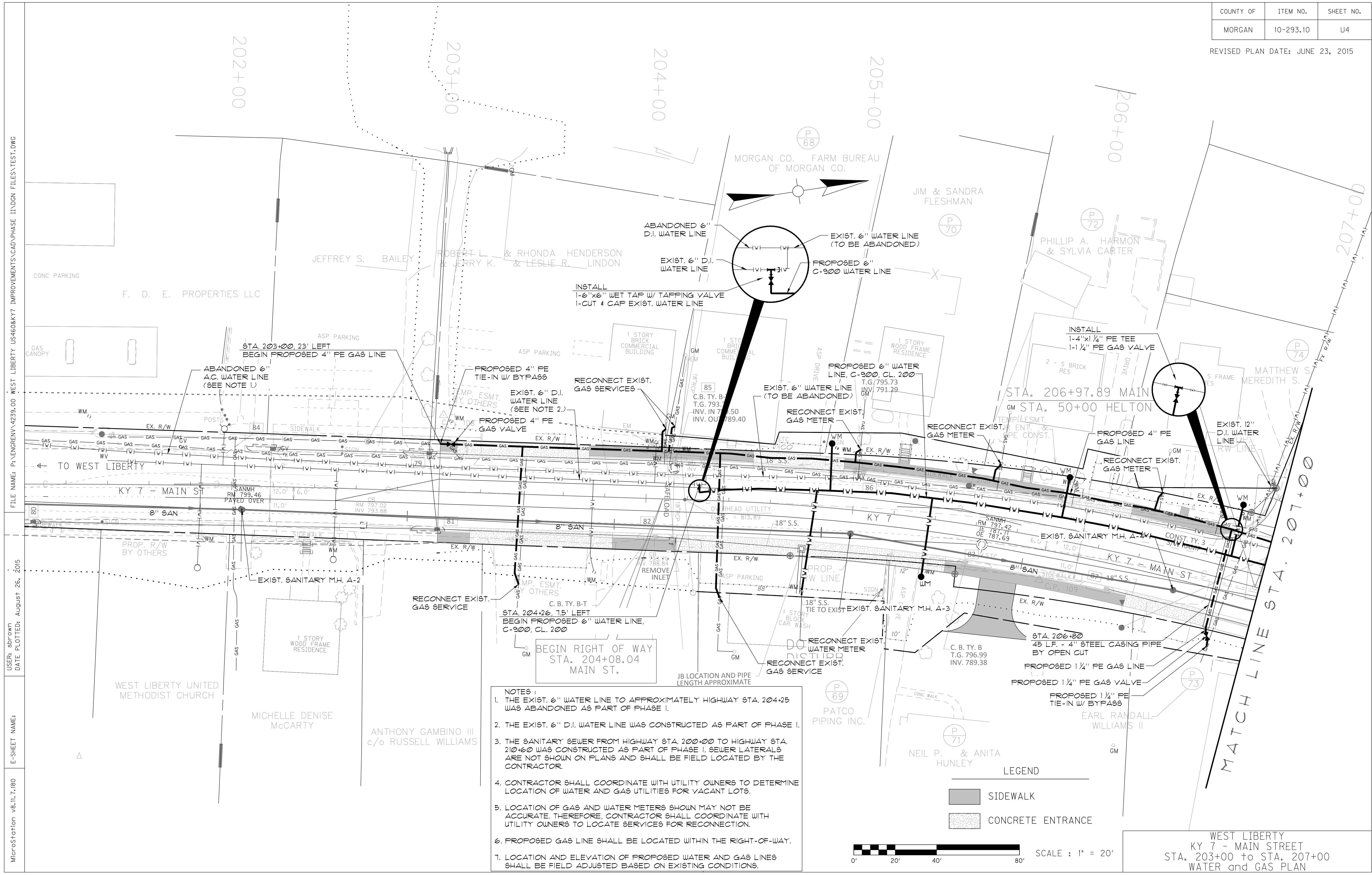
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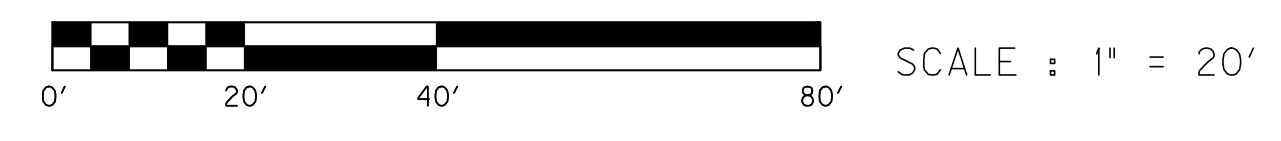
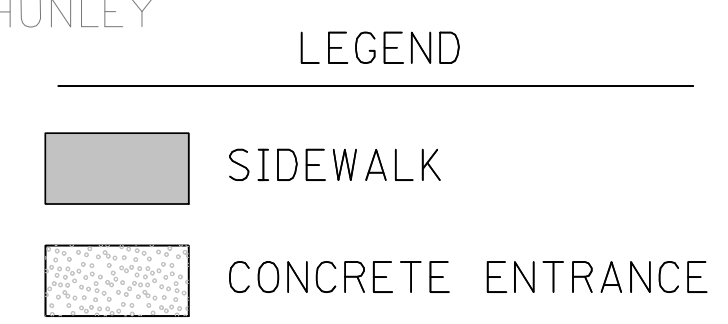
WEST LIBERTY
KY 7 MAIN STREET
GENERAL NOTES

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U4

REVISED PLAN DATE: JUNE 23, 2015



- NOTES:
1. THE EXIST. 6" WATER LINE TO APPROXIMATELY HIGHWAY STA. 204+25 WAS ABANDONED AS PART OF PHASE I.
 2. THE EXIST. 6" D.I. WATER LINE WAS CONSTRUCTED AS PART OF PHASE I.
 3. THE SANITARY SEWER FROM HIGHWAY STA. 200+00 TO HIGHWAY STA. 210+00 WAS CONSTRUCTED AS PART OF PHASE I. SEWER LATERALS ARE NOT SHOWN ON PLANS AND SHALL BE FIELD LOCATED BY THE CONTRACTOR.
 4. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO DETERMINE LOCATION OF WATER AND GAS UTILITIES FOR VACANT LOTS.
 5. LOCATION OF GAS AND WATER METERS SHOWN MAY NOT BE ACCURATE. THEREFORE, CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO LOCATE SERVICES FOR RECONNECTION.
 6. PROPOSED GAS LINE SHALL BE LOCATED WITHIN THE RIGHT-OF-WAY.
1. LOCATION AND ELEVATION OF PROPOSED WATER AND GAS LINES SHALL BE FIELD ADJUSTED BASED ON EXISTING CONDITIONS.



WEST LIBERTY
KY 7 - MAIN STREET
STA. 203+00 to STA. 207+00
WATER and GAS PLAN

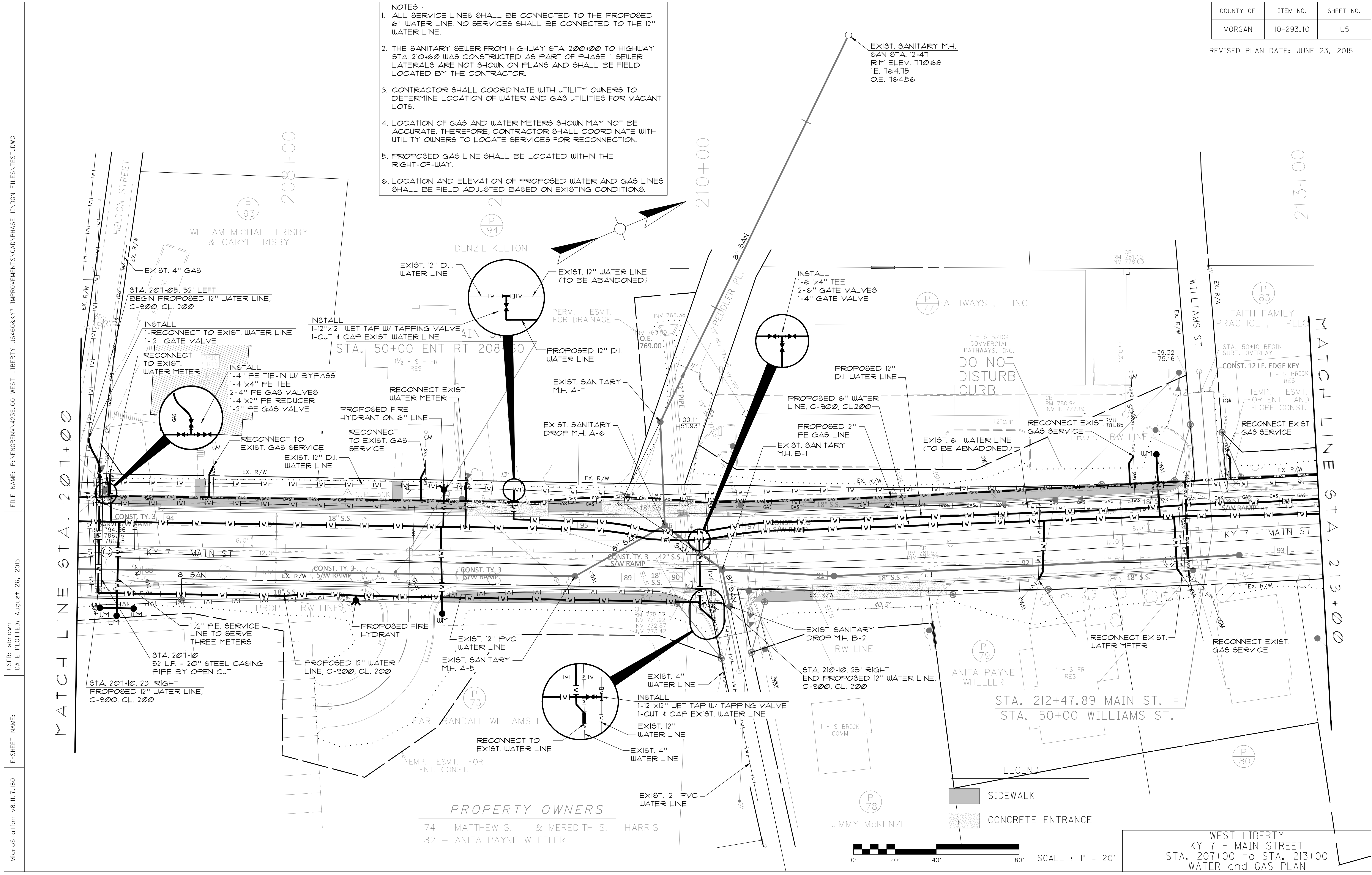
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 DATE PLOTTED: August 26, 2015
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 MicroStation v8.11.7.180

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COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U5

REVISED PLAN DATE: JUNE 23, 2015

- NOTES :
1. ALL SERVICE LINES SHALL BE CONNECTED TO THE PROPOSED 6" WATER LINE. NO SERVICES SHALL BE CONNECTED TO THE 12" WATER LINE.
 2. THE SANITARY SEWER FROM HIGHWAY STA. 200+00 TO HIGHWAY STA. 210+00 WAS CONSTRUCTED AS PART OF PHASE I. SEWER LATERALS ARE NOT SHOWN ON PLANS AND SHALL BE FIELD LOCATED BY THE CONTRACTOR.
 3. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO DETERMINE LOCATION OF WATER AND GAS UTILITIES FOR VACANT LOTS.
 4. LOCATION OF GAS AND WATER METERS SHOWN MAY NOT BE ACCURATE. THEREFORE, CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO LOCATE SERVICES FOR RECONNECTION.
 5. PROPOSED GAS LINE SHALL BE LOCATED WITHIN THE RIGHT-OF-WAY.
 6. LOCATION AND ELEVATION OF PROPOSED WATER AND GAS LINES SHALL BE FIELD ADJUSTED BASED ON EXISTING CONDITIONS.



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 DATE PLOTTED: August 26, 2015
 E-SHEET NAME:
 MicroStation v8.11.7.180

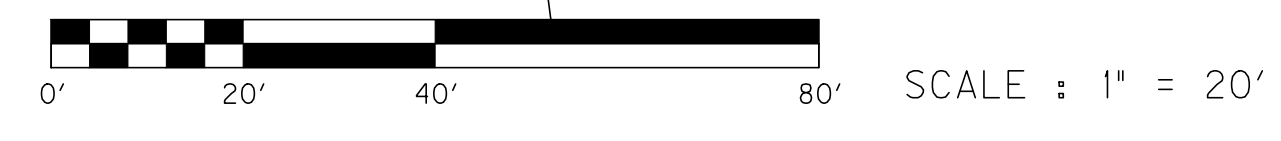
MATCH LINE STA. 207+00

MATCH LINE STA. 213+00

PROPERTY OWNERS
 74 - MATTHEW S. & MEREDITH S. HARRIS
 82 - ANITA PAYNE WHEELER

LEGEND

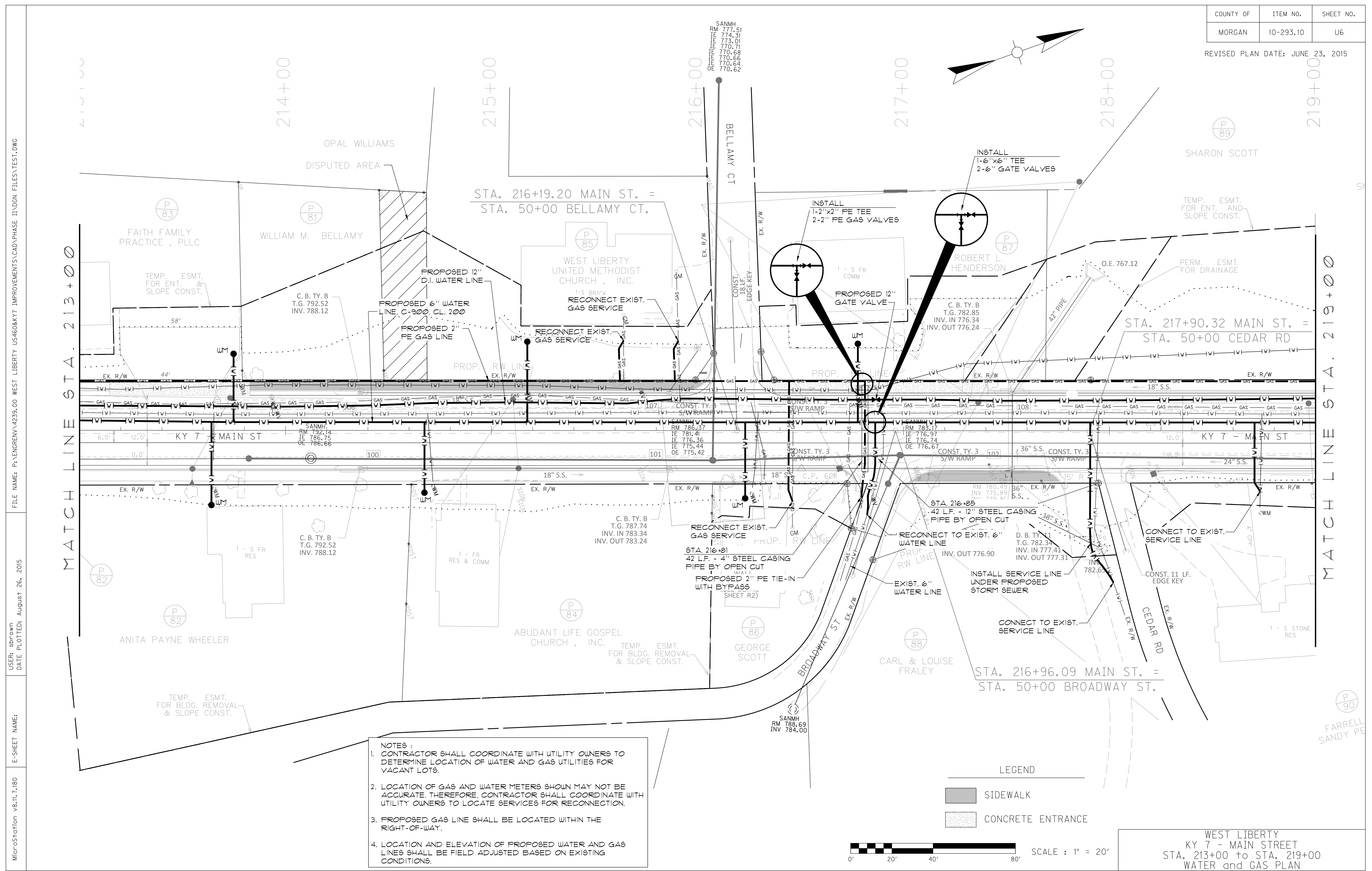
 SIDEWALK
 CONCRETE ENTRANCE



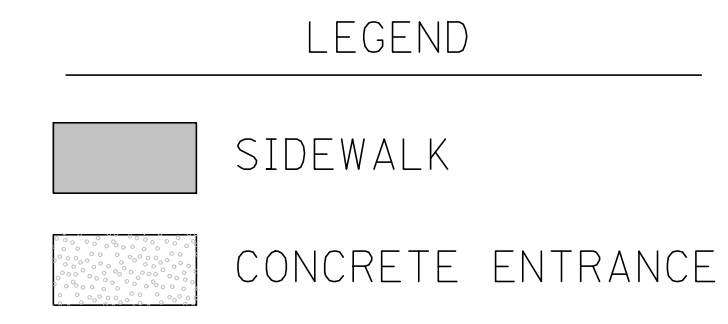
WEST LIBERTY
 KY 7 - MAIN STREET
 STA. 207+00 to STA. 213+00
 WATER and GAS PLAN

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U6

REVISED PLAN DATE: JUNE 23, 2015



- NOTES :
1. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO DETERMINE LOCATION OF WATER AND GAS UTILITIES FOR VACANT LOTS.
 2. LOCATION OF GAS AND WATER METERS SHOWN MAY NOT BE ACCURATE, THEREFORE, CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO LOCATE SERVICES FOR RECONNECTION.
 3. PROPOSED GAS LINE SHALL BE LOCATED WITHIN THE RIGHT-OF-WAY.
 4. LOCATION AND ELEVATION OF PROPOSED WATER AND GAS LINES SHALL BE FIELD ADJUSTED BASED ON EXISTING CONDITIONS.



WEST LIBERTY
 KY 7 - MAIN STREET
 STA. 213+00 TO STA. 219+00
 WATER and GAS PLAN

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DATE PLOTTED: August 26, 2015

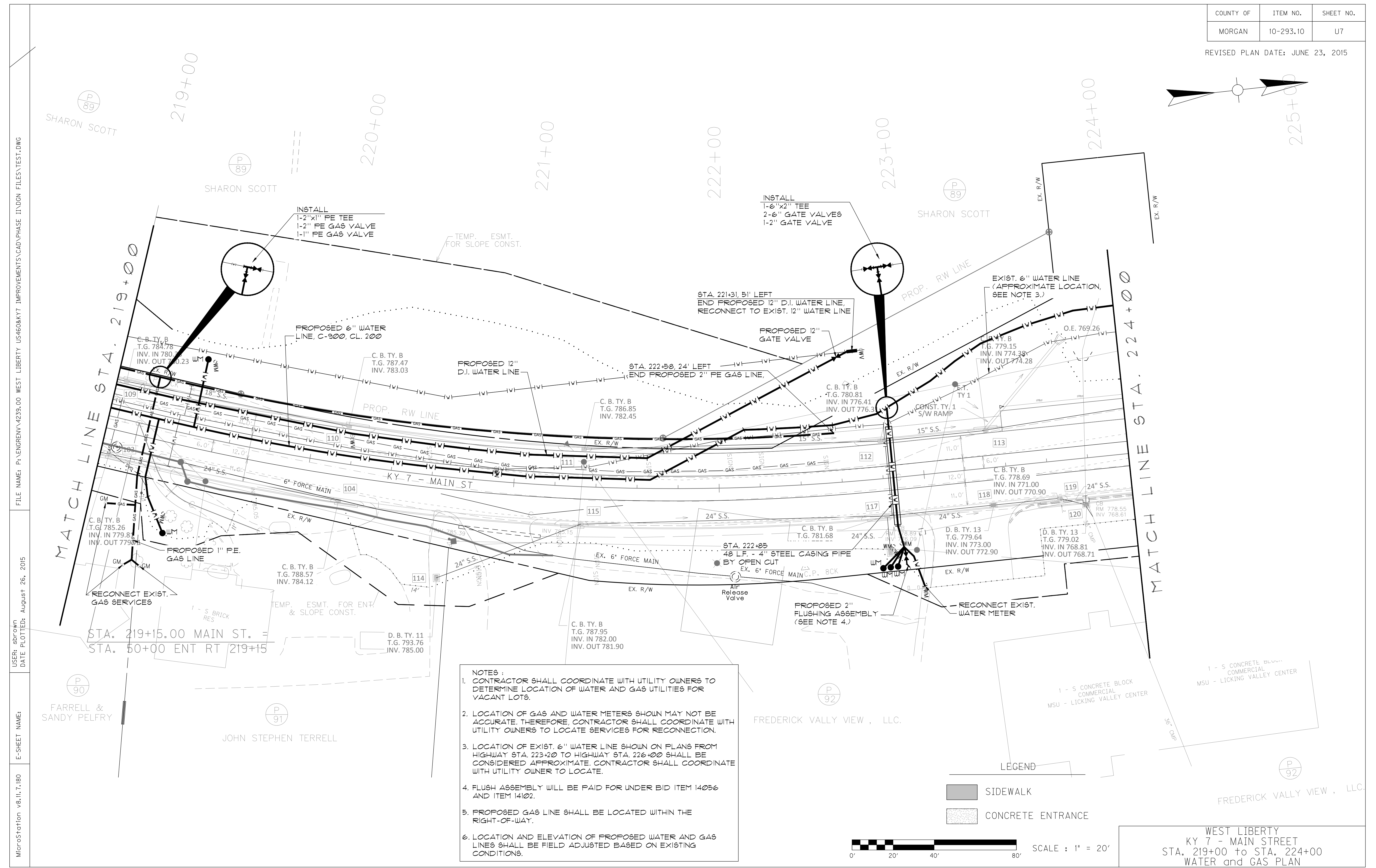
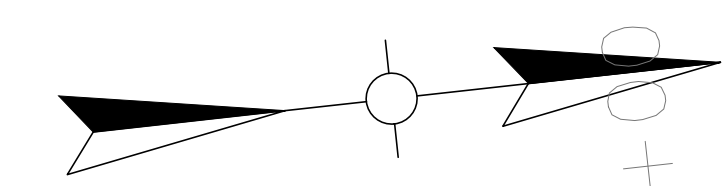
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COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U7

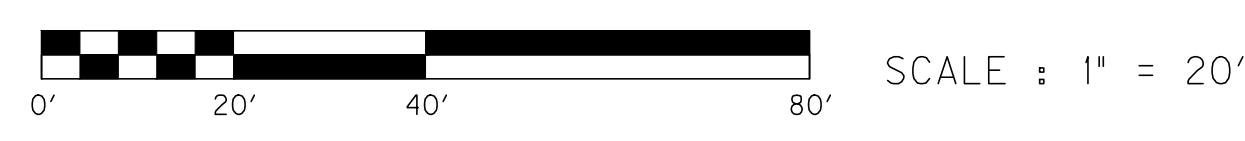
REVISED PLAN DATE: JUNE 23, 2015



- NOTES :**
- CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO DETERMINE LOCATION OF WATER AND GAS UTILITIES FOR VACANT LOTS.
 - LOCATION OF GAS AND WATER METERS SHOWN MAY NOT BE ACCURATE. THEREFORE, CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO LOCATE SERVICES FOR RECONNECTION.
 - LOCATION OF EXIST. 6" WATER LINE SHOWN ON PLANS FROM HIGHWAY STA. 223+20 TO HIGHWAY STA. 226+00 SHALL BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER TO LOCATE.
 - FLUSH ASSEMBLY WILL BE PAID FOR UNDER BID ITEM 14056 AND ITEM 14102.
 - PROPOSED GAS LINE SHALL BE LOCATED WITHIN THE RIGHT-OF-WAY.
 - LOCATION AND ELEVATION OF PROPOSED WATER AND GAS LINES SHALL BE FIELD ADJUSTED BASED ON EXISTING CONDITIONS.

LEGEND

- SIDEWALK
- CONCRETE ENTRANCE

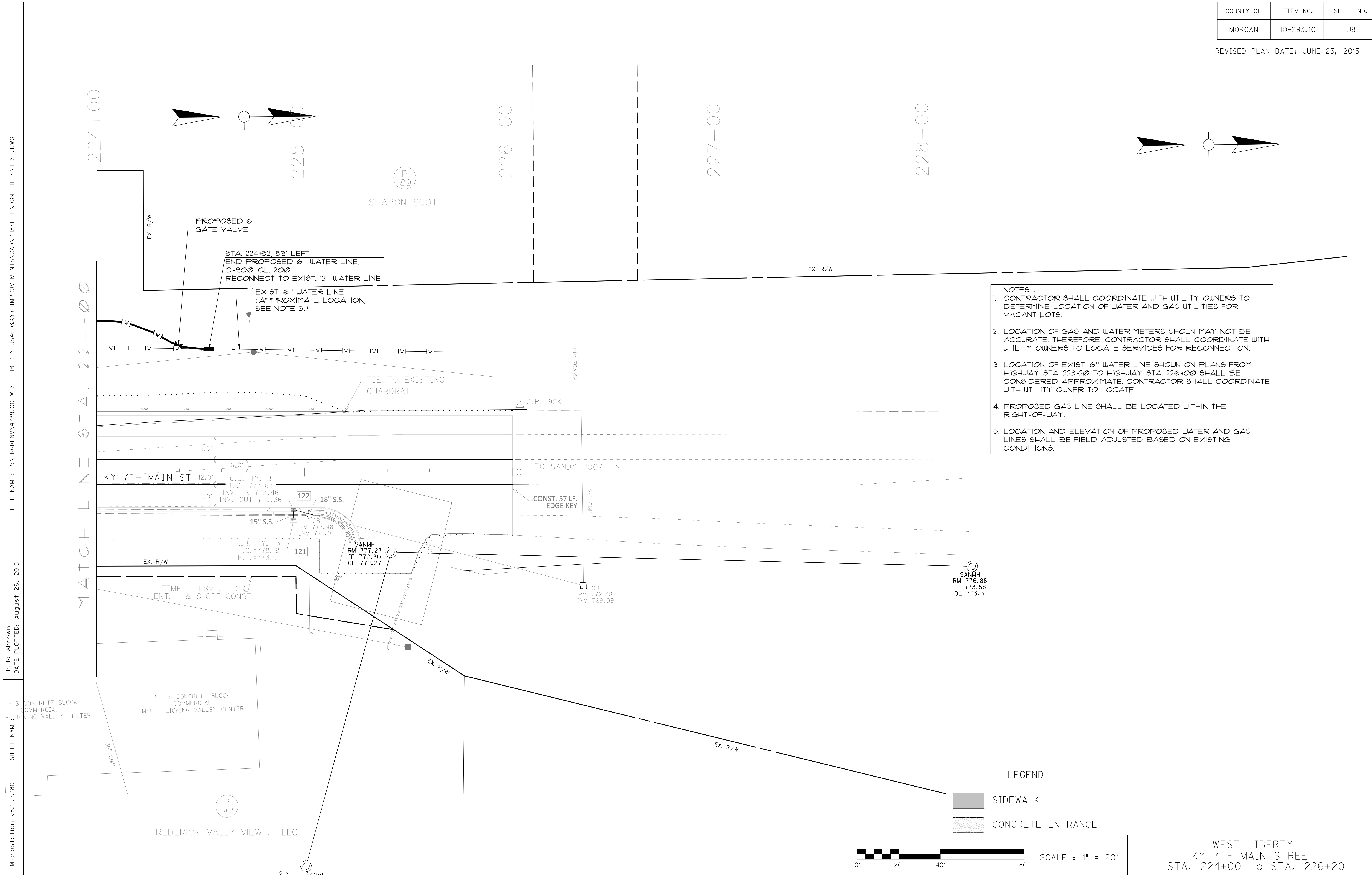


WEST LIBERTY
KY 7 - MAIN STREET
STA. 219+00 to STA. 224+00
WATER and GAS PLAN

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 USER: sbrown
 DATE PLOTTED: August 26, 2015
 E-SHEET NAME:
 MicroStation v8.11.1.180

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U8

REVISED PLAN DATE: JUNE 23, 2015



- NOTES :
- CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO DETERMINE LOCATION OF WATER AND GAS UTILITIES FOR VACANT LOTS.
 - LOCATION OF GAS AND WATER METERS SHOWN MAY NOT BE ACCURATE. THEREFORE, CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO LOCATE SERVICES FOR RECONNECTION.
 - LOCATION OF EXIST. 6" WATER LINE SHOWN ON PLANS FROM HIGHWAY STA. 223+20 TO HIGHWAY STA. 226+00 SHALL BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER TO LOCATE.
 - PROPOSED GAS LINE SHALL BE LOCATED WITHIN THE RIGHT-OF-WAY.
 - LOCATION AND ELEVATION OF PROPOSED WATER AND GAS LINES SHALL BE FIELD ADJUSTED BASED ON EXISTING CONDITIONS.

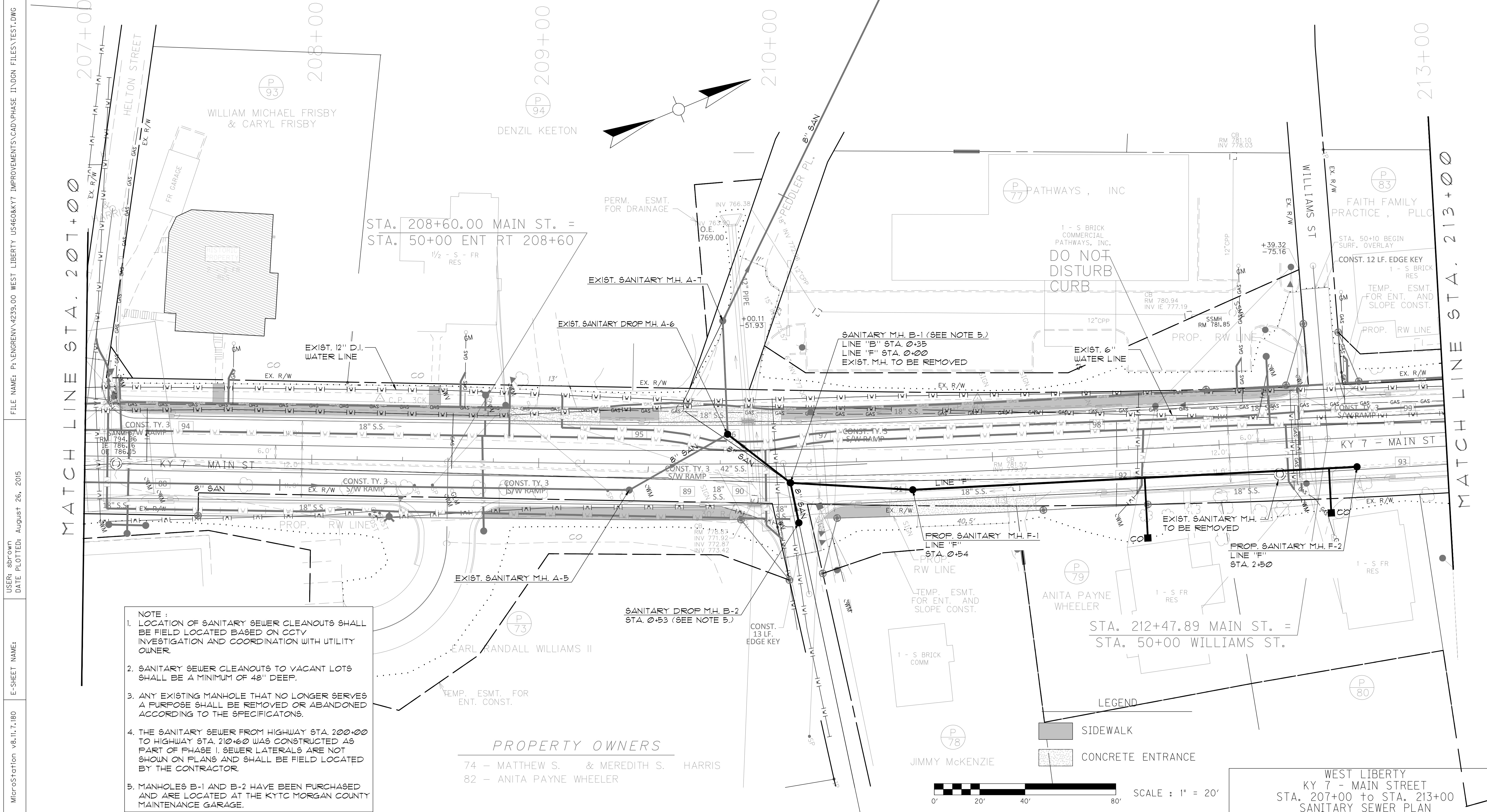
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WEST LIBERTY
 KY 7 - MAIN STREET
 STA. 224+00 to STA. 226+00

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U9

REVISED PLAN DATE: JUNE 23, 2015



NOTE :

1. LOCATION OF SANITARY SEWER CLEANOUTS SHALL BE FIELD LOCATED BASED ON CCTV INVESTIGATION AND COORDINATION WITH UTILITY OWNER.
2. SANITARY SEWER CLEANOUTS TO VACANT LOTS SHALL BE A MINIMUM OF 48" DEEP.
3. ANY EXISTING MANHOLE THAT NO LONGER SERVES A PURPOSE SHALL BE REMOVED OR ABANDONED ACCORDING TO THE SPECIFICATIONS.
4. THE SANITARY SEWER FROM HIGHWAY STA. 200+00 TO HIGHWAY STA. 210+00 WAS CONSTRUCTED AS PART OF PHASE I. SEWER LATERALS ARE NOT SHOWN ON PLANS AND SHALL BE FIELD LOCATED BY THE CONTRACTOR.
5. MANHOLES B-1 AND B-2 HAVE BEEN PURCHASED AND ARE LOCATED AT THE KYTC MORGAN COUNTY MAINTENANCE GARAGE.

PROPERTY OWNERS

74 - MATTHEW S. & MEREDITH S. HARRIS
 82 - ANITA PAYNE WHEELER

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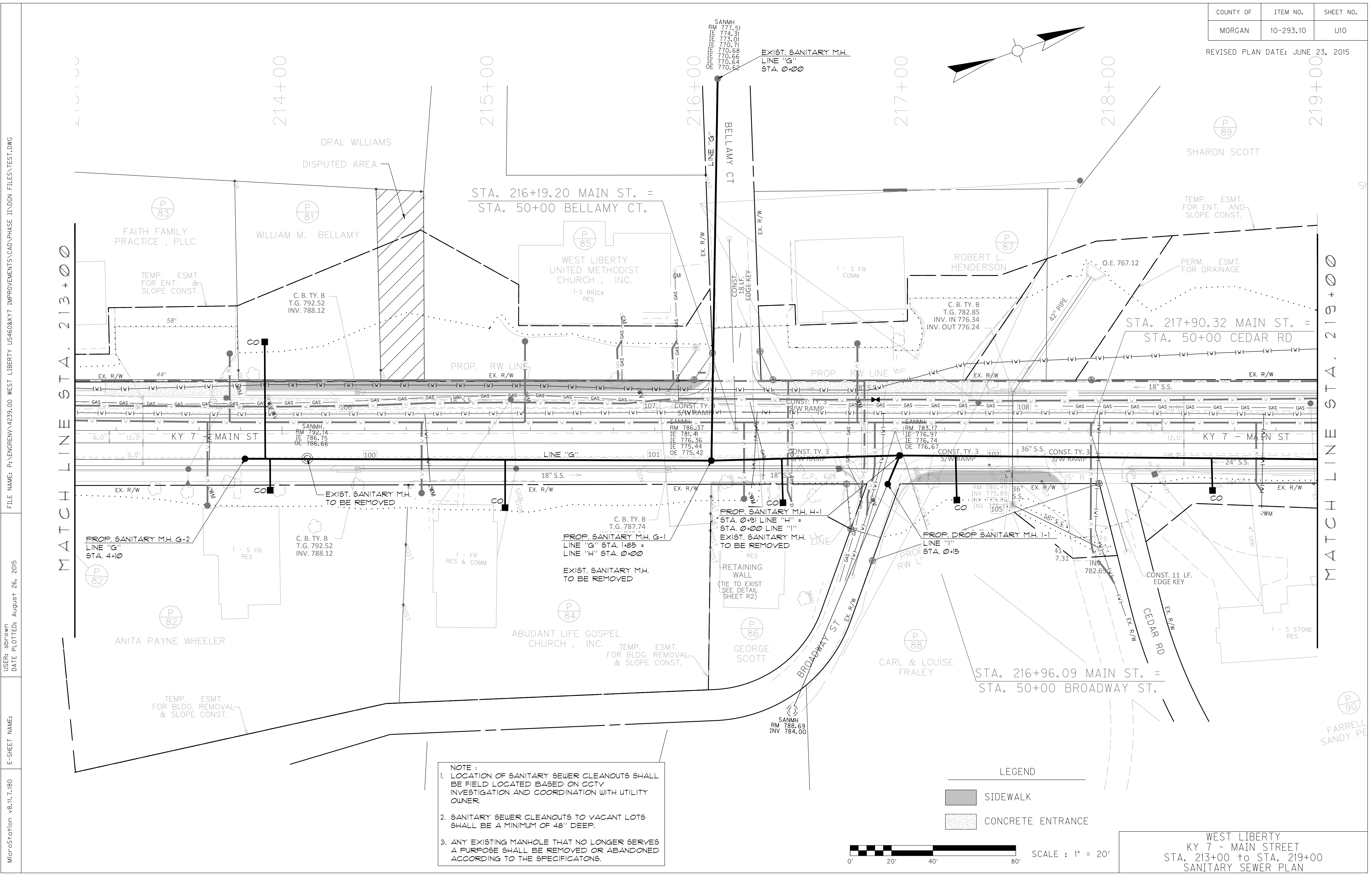
MATCH LINE STA. 207+00

MATCH LINE STA. 213+00

WEST LIBERTY
 KY 7 - MAIN STREET
 STA. 207+00 to STA. 213+00
 SANITARY SEWER PLAN

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U10

REVISED PLAN DATE: JUNE 23, 2015

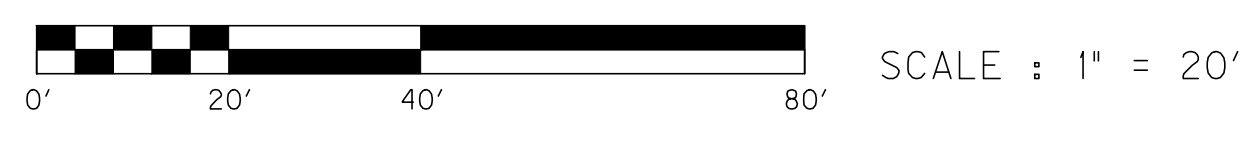


NOTE :

1. LOCATION OF SANITARY SEWER CLEANOUTS SHALL BE FIELD LOCATED BASED ON CCTV INVESTIGATION AND COORDINATION WITH UTILITY OWNER.
2. SANITARY SEWER CLEANOUTS TO VACANT LOTS SHALL BE A MINIMUM OF 48" DEEP.
3. ANY EXISTING MANHOLE THAT NO LONGER SERVES A PURPOSE SHALL BE REMOVED OR ABANDONED ACCORDING TO THE SPECIFICATIONS.

LEGEND

- SIDWALK
- CONCRETE ENTRANCE

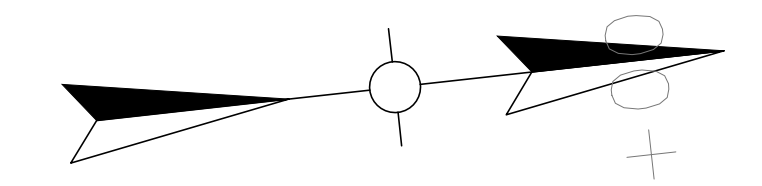


WEST LIBERTY
KY 7 - MAIN STREET
STA. 213+00 to STA. 219+00
SANITARY SEWER PLAN

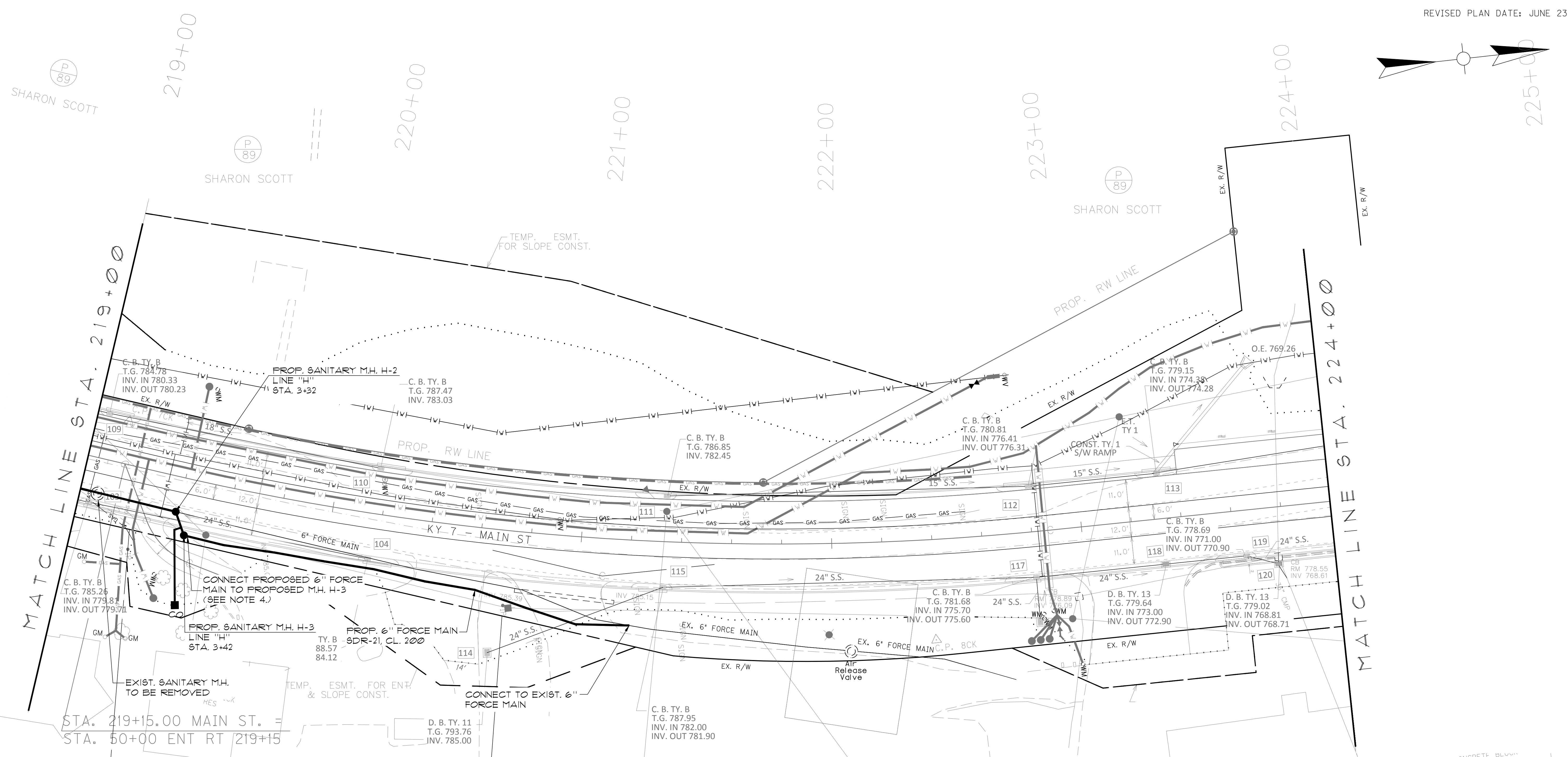
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USER: sbrown
DATE PLOTTED: August 26, 2015
E-SHEET NAME:
MicroStation v8.11.7.180

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	UII

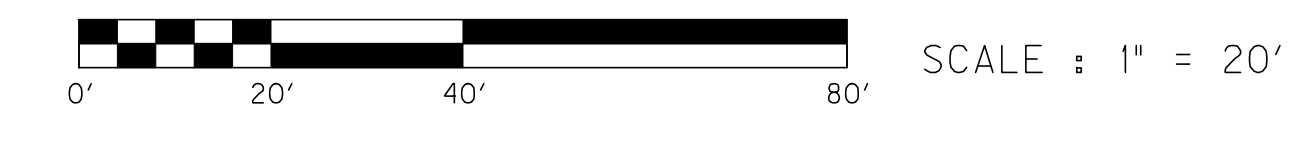
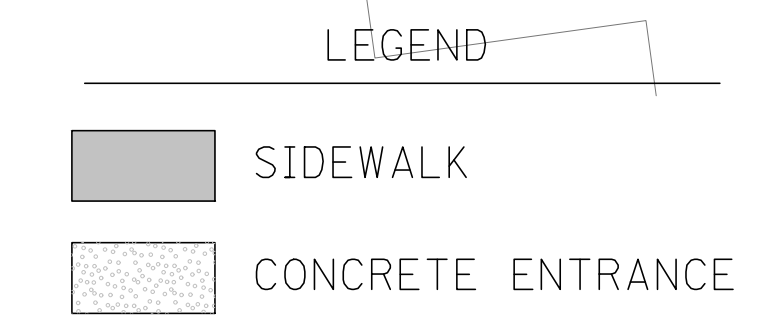
REVISED PLAN DATE: JUNE 23, 2015



FILE NAME: P:\ENGR\2239.00 WEST LIBERTY US4608K17 IMPROVEMENTS\CAD\PHASE II\DCN FILES\TEST.DWG
 USER: sbrown
 DATE PLOTTED: August 26, 2015
 E-SHEET NAME:
 MicroStation v8.11.7.180



- NOTES:**
1. LOCATION OF SANITARY SEWER CLEANOUTS SHALL BE FIELD LOCATED BASED ON CCTV INVESTIGATION AND COORDINATION WITH UTILITY OWNER.
 2. SANITARY SEWER CLEANOUTS TO VACANT LOTS SHALL BE A MINIMUM OF 48" DEEP.
 3. ANY EXISTING MANHOLE THAT NO LONGER SERVES A PURPOSE SHALL BE REMOVED OR ABANDONED ACCORDING TO THE SPECIFICATIONS.
 4. REFER TO DETAIL SHEET FOR CONNECTION OF FORCE MAIN TO MANHOLE. CONNECTION OF FORCE MAIN TO MANHOLE SHALL BE CONSIDERED INCIDENTAL.



WEST LIBERTY
 KY 7 - MAIN STREET
 STA. 219+00 TO STA. 224+00
 SANITARY SEWER PLAN

P 89
 SHARON SCOTT

P 90
 FARRELL &
 SANDY PELFREY

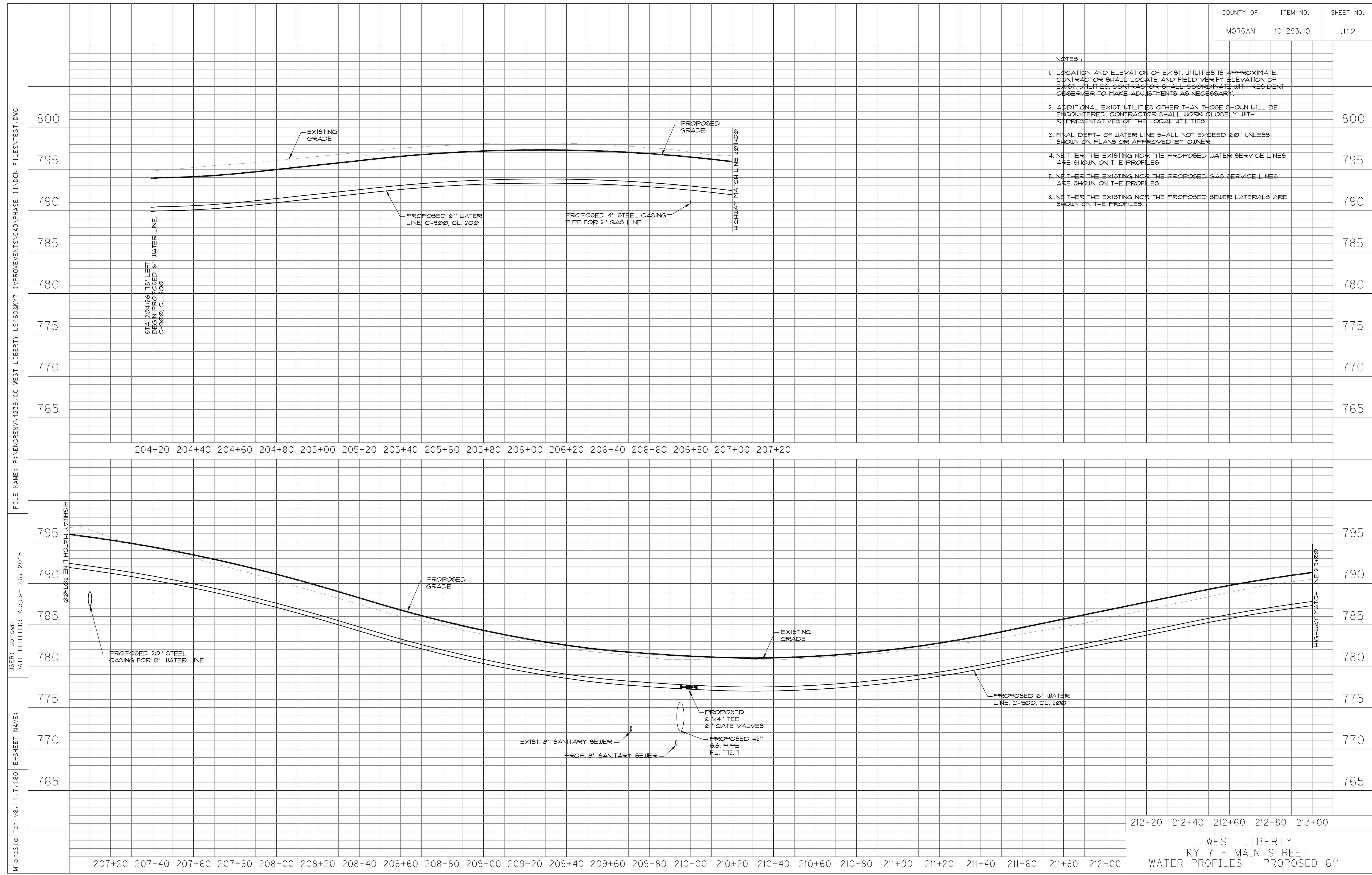
P 91
 JOHN STEPHEN TERRELL

P 92
 FREDERICK VALLY VIEW, LLC.

P 92
 FREDERICK VALLY VIEW, LLC.

1 - S CONCRETE BLOCK
 COMMERCIAL
 MSU - LICKING VALLEY CENTER

1 - S CONCRETE BLOCK
 COMMERCIAL
 MSU - LICKING VALLEY CENTER



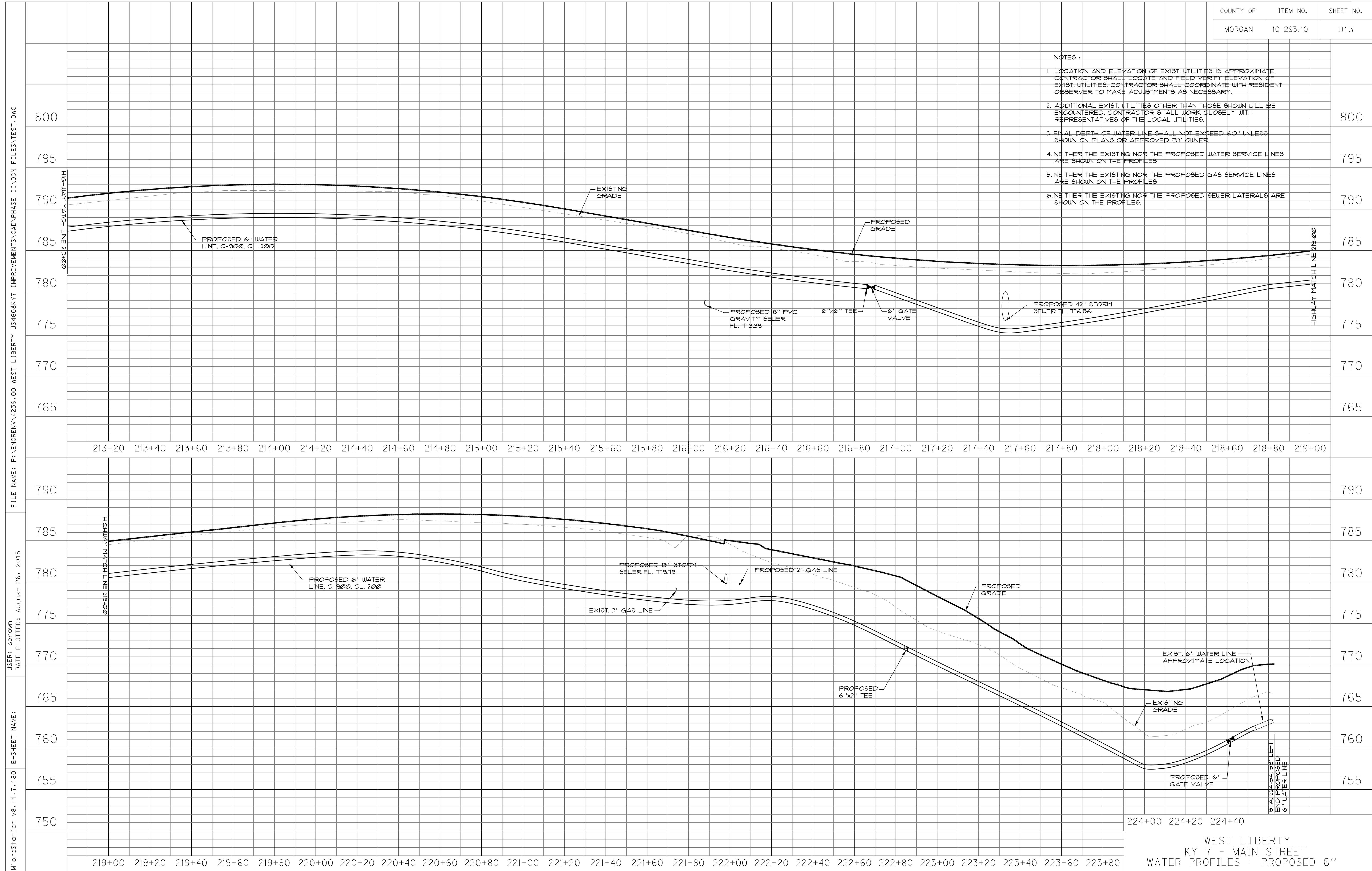
- NOTES:
1. LOCATION AND ELEVATION OF EXIST. UTILITIES IS APPROXIMATE. CONTRACTOR SHALL LOCATE AND FIELD VERIFY ELEVATION OF EXIST. UTILITIES. CONTRACTOR SHALL COORDINATE WITH RESIDENT OBSERVER TO MAKE ADJUSTMENTS AS NECESSARY.
 2. ADDITIONAL EXIST. UTILITIES OTHER THAN THOSE SHOWN WILL BE ENCOUNTERED. CONTRACTOR SHALL WORK CLOSELY WITH REPRESENTATIVES OF THE LOCAL UTILITIES.
 3. FINAL DEPTH OF WATER LINE SHALL NOT EXCEED 60" UNLESS SHOWN ON PLANS OR APPROVED BY OWNER.
 4. NEITHER THE EXISTING NOR THE PROPOSED WATER SERVICE LINES ARE SHOWN ON THE PROFILES.
 5. NEITHER THE EXISTING NOR THE PROPOSED GAS SERVICE LINES ARE SHOWN ON THE PROFILES.
 6. NEITHER THE EXISTING NOR THE PROPOSED SEWER LATERALS ARE SHOWN ON THE PROFILES.

FILE NAME: P:\ENGR\4239_00 WEST LIBERTY US460&K7 IMPROVEMENTS\CAD\PHASE II\VDGN FILES\TEST.DWG
 USER: sbrown
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 E-SHEET NAME: MicroStation v8.11.7.180
 P:\engr\4239_00 West Liberty US460&K7 Improvements\CAD\PHASE II REVISED DWG PLANS 2.17.10\12 U7 PHASE II Gas Water Profiles Revised.dwg, 11/29/2017 4:48:01 PM, DWG To PDF.pc3

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U12

212+20 212+40 212+60 212+80 213+00
 WEST LIBERTY
 KY 7 - MAIN STREET
 WATER PROFILES - PROPOSED 6"

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293,10	U13



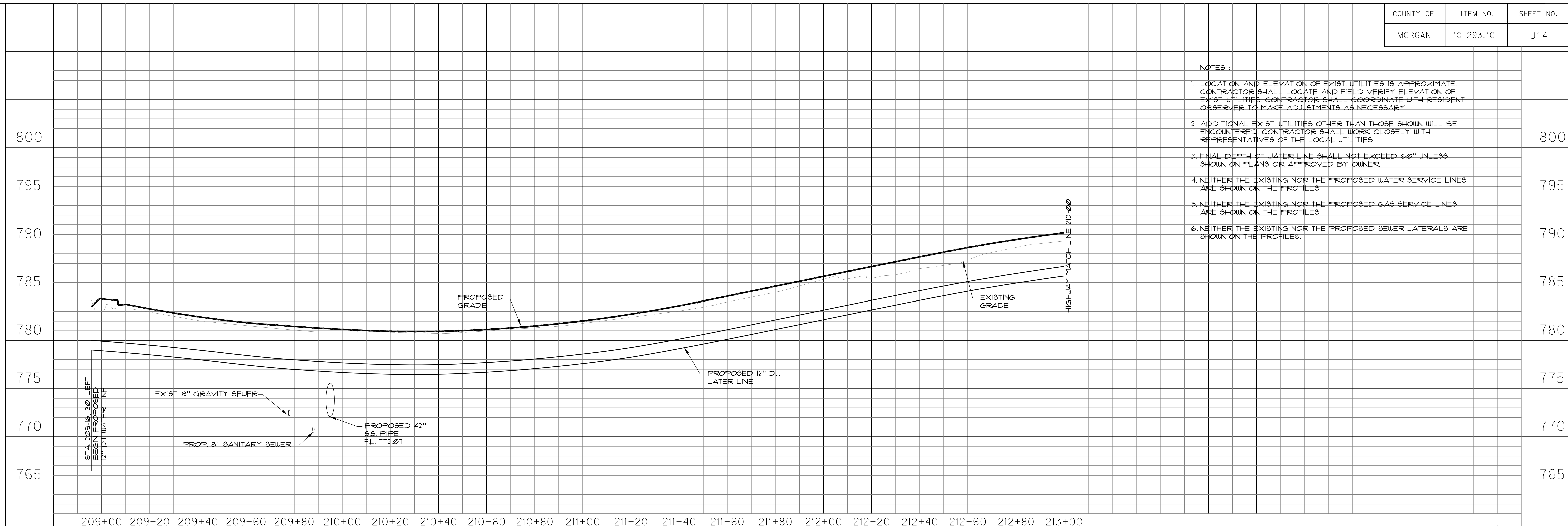
- NOTES:
1. LOCATION AND ELEVATION OF EXIST. UTILITIES IS APPROXIMATE. CONTRACTOR SHALL LOCATE AND FIELD VERIFY ELEVATION OF EXIST. UTILITIES. CONTRACTOR SHALL COORDINATE WITH RESIDENT OBSERVER TO MAKE ADJUSTMENTS AS NECESSARY.
 2. ADDITIONAL EXIST. UTILITIES OTHER THAN THOSE SHOWN WILL BE ENCOUNTERED. CONTRACTOR SHALL WORK CLOSELY WITH REPRESENTATIVES OF THE LOCAL UTILITIES.
 3. FINAL DEPTH OF WATER LINE SHALL NOT EXCEED 80" UNLESS SHOWN ON PLANS OR APPROVED BY OWNER.
 4. NEITHER THE EXISTING NOR THE PROPOSED WATER SERVICE LINES ARE SHOWN ON THE PROFILES.
 5. NEITHER THE EXISTING NOR THE PROPOSED GAS SERVICE LINES ARE SHOWN ON THE PROFILES.
 6. NEITHER THE EXISTING NOR THE PROPOSED SEWER LATERALS ARE SHOWN ON THE PROFILES.

FILE NAME: P:\ENGR\ENV\4239-00 WEST LIBERTY US460&K7 IMPROVEMENTS\CAD\PHASE II\DCN FILES\TEST.DWG
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 DATE PLOTTED: August 26, 2015
 E-SHEET NAME: MicroStation v8.11.7.180
 P:\engr\env\4239-00 West Liberty US460&K7 Improvements\CAD\PHASE II REVISED DWG PLANS 2.17.10.12 U17 PHASE II Gas Water Profiles Revised.dwg, 11/29/2017 4:47:39 PM, DWG To PDF.pc3

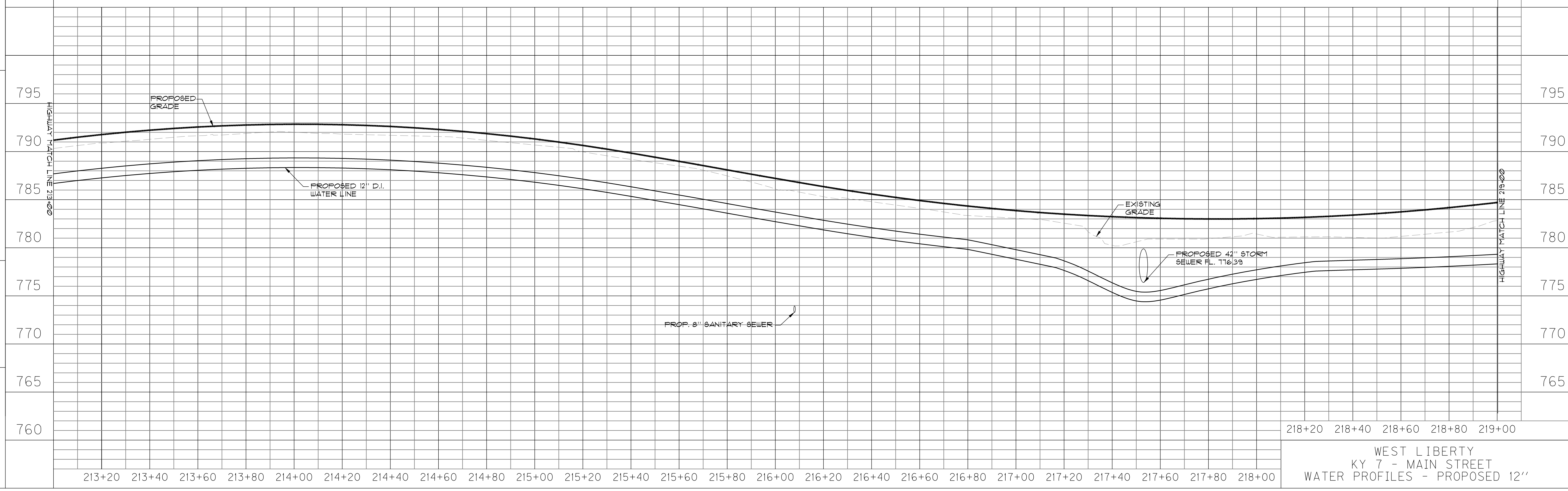
224+00 224+20 224+40
 WEST LIBERTY
 KY 7 - MAIN STREET
 WATER PROFILES - PROPOSED 6"

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U14

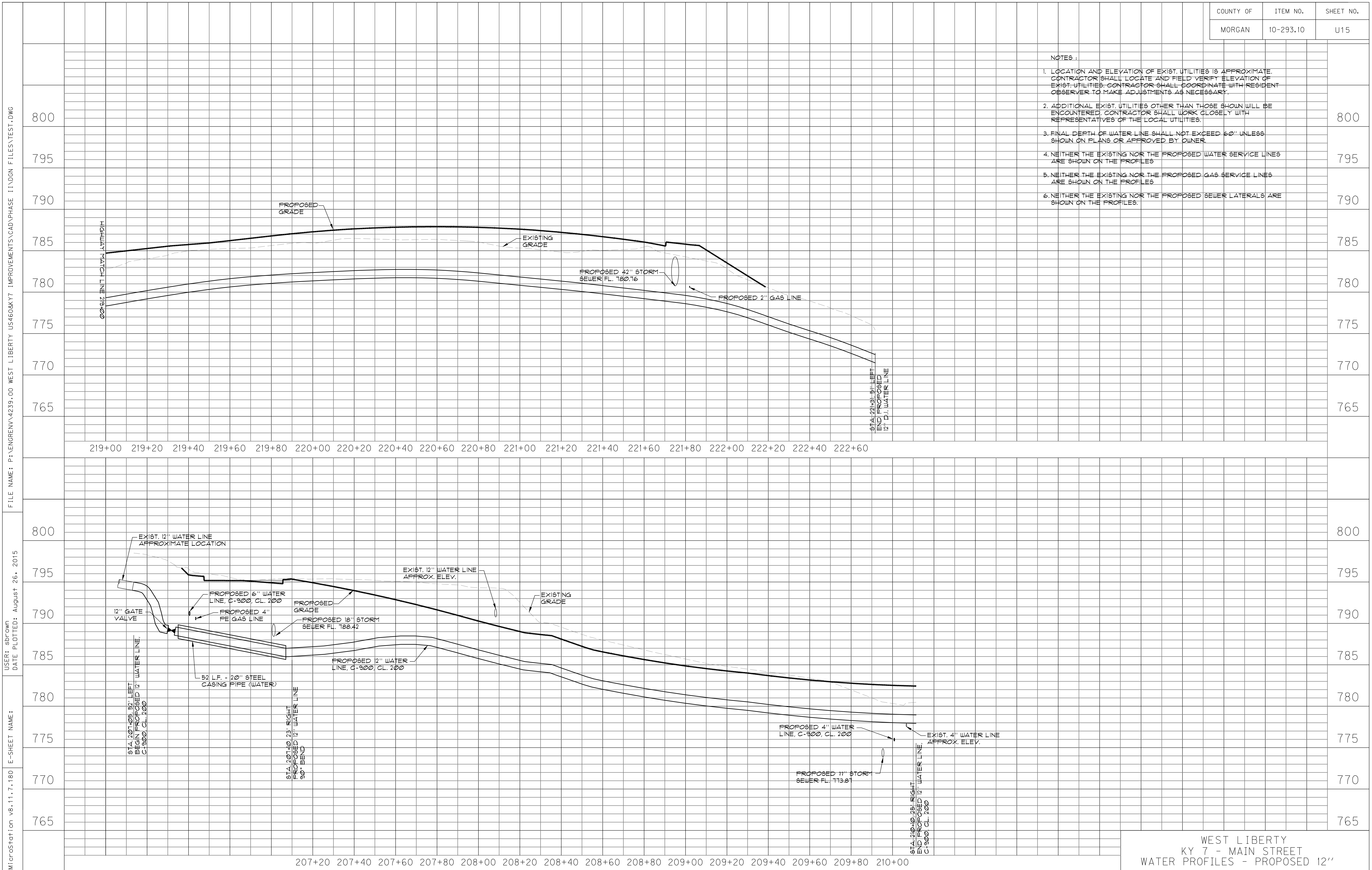
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 USER: sdcrowd
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 E-SHEET NAME: MicroStation v8.11.7.180
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- NOTES:
1. LOCATION AND ELEVATION OF EXIST. UTILITIES IS APPROXIMATE. CONTRACTOR SHALL LOCATE AND FIELD VERIFY ELEVATION OF EXIST. UTILITIES. CONTRACTOR SHALL COORDINATE WITH RESIDENT OBSERVER TO MAKE ADJUSTMENTS AS NECESSARY.
 2. ADDITIONAL EXIST. UTILITIES OTHER THAN THOSE SHOWN WILL BE ENCOUNTERED. CONTRACTOR SHALL WORK CLOSELY WITH REPRESENTATIVES OF THE LOCAL UTILITIES.
 3. FINAL DEPTH OF WATER LINE SHALL NOT EXCEED 60" UNLESS SHOWN ON PLANS OR APPROVED BY OWNER.
 4. NEITHER THE EXISTING NOR THE PROPOSED WATER SERVICE LINES ARE SHOWN ON THE PROFILES.
 5. NEITHER THE EXISTING NOR THE PROPOSED GAS SERVICE LINES ARE SHOWN ON THE PROFILES.
 6. NEITHER THE EXISTING NOR THE PROPOSED SEWER LATERALS ARE SHOWN ON THE PROFILES.



218+20 218+40 218+60 218+80 219+00
 WEST LIBERTY
 KY 7 - MAIN STREET
 WATER PROFILES - PROPOSED 12"



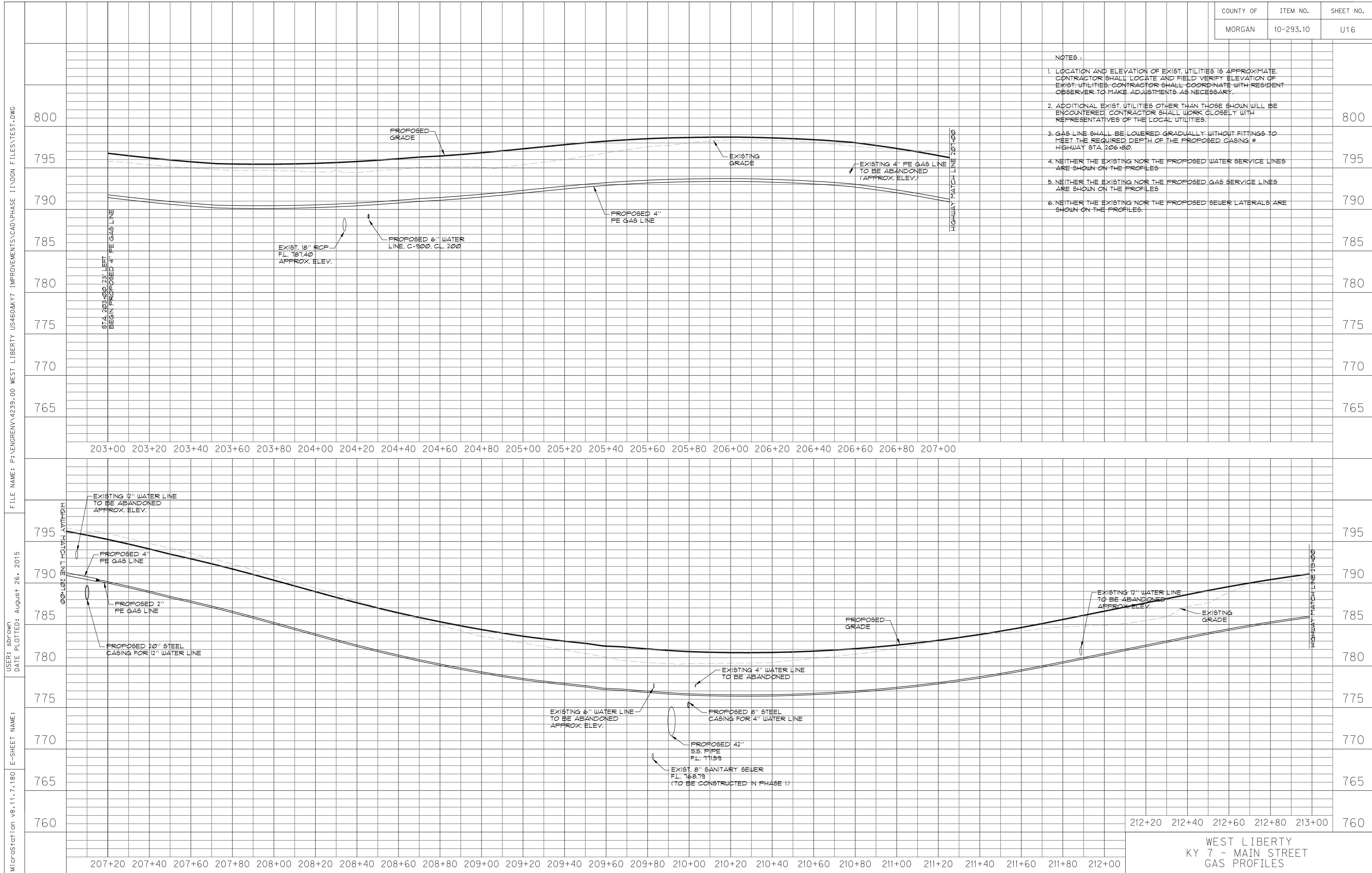
COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U15

- NOTES:
1. LOCATION AND ELEVATION OF EXIST. UTILITIES IS APPROXIMATE. CONTRACTOR SHALL LOCATE AND FIELD VERIFY ELEVATION OF EXIST. UTILITIES. CONTRACTOR SHALL COORDINATE WITH RESIDENT OBSERVER TO MAKE ADJUSTMENTS AS NECESSARY.
 2. ADDITIONAL EXIST. UTILITIES OTHER THAN THOSE SHOWN WILL BE ENCOUNTERED. CONTRACTOR SHALL WORK CLOSELY WITH REPRESENTATIVES OF THE LOCAL UTILITIES.
 3. FINAL DEPTH OF WATER LINE SHALL NOT EXCEED 60" UNLESS SHOWN ON PLANS OR APPROVED BY OWNER.
 4. NEITHER THE EXISTING NOR THE PROPOSED WATER SERVICE LINES ARE SHOWN ON THE PROFILES.
 5. NEITHER THE EXISTING NOR THE PROPOSED GAS SERVICE LINES ARE SHOWN ON THE PROFILES.
 6. NEITHER THE EXISTING NOR THE PROPOSED SEWER LATERALS ARE SHOWN ON THE PROFILES.

FILE NAME: P:\ENGR\4239.00 WEST LIBERTY US460&K7 IMPROVEMENTS\CAD\PHASE 11\DCN FILES\TEST.DWG
 USER: sbrwn
 DATE PLOTTED: August 26, 2015
 E-SHEET NAME: v8-11-7-180
 MICROSOFT: 08/26/2015 11:17:10 AM

WEST LIBERTY
 KY 7 - MAIN STREET
 WATER PROFILES - PROPOSED 12"

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U16



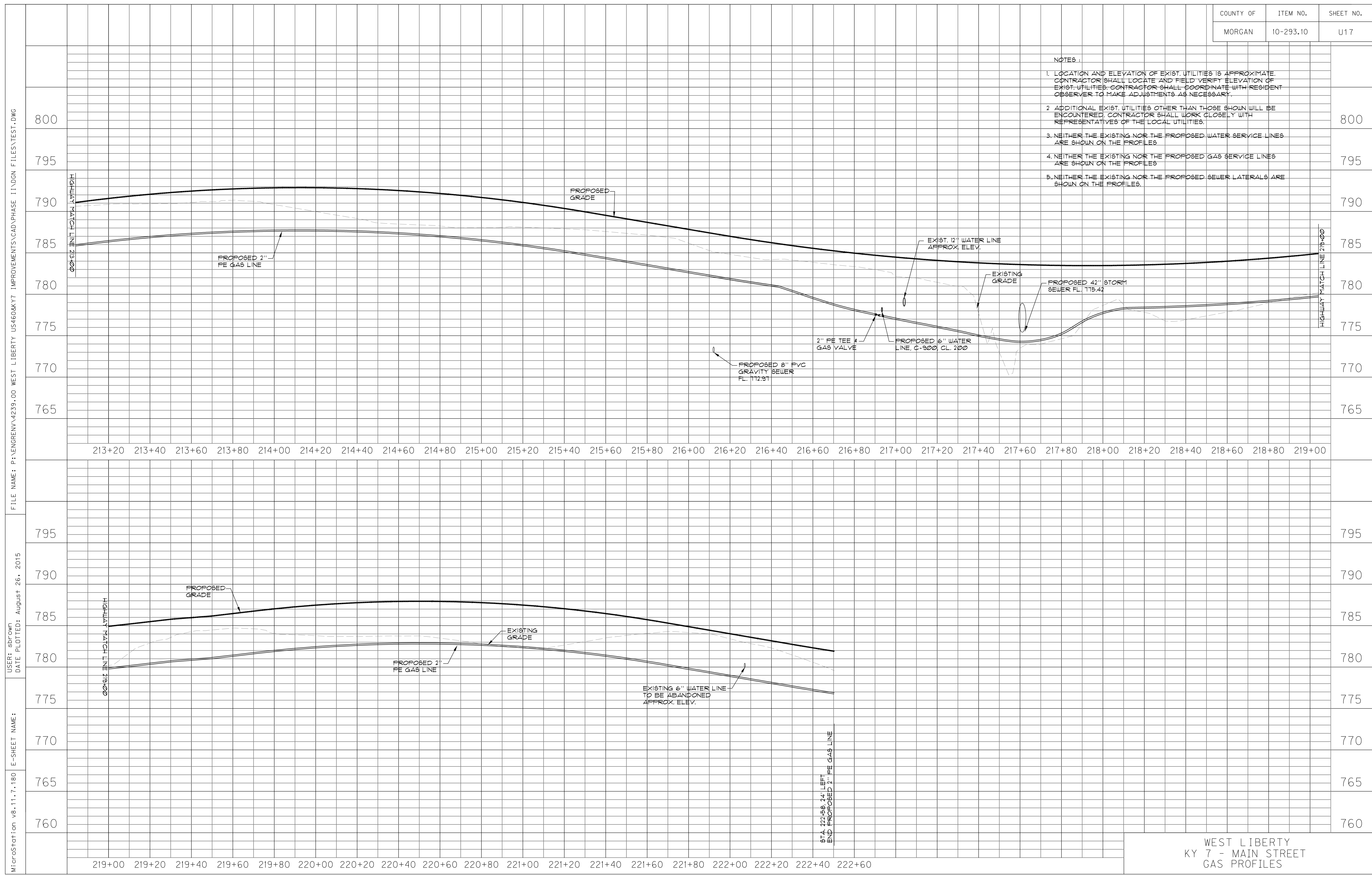
- NOTES:
1. LOCATION AND ELEVATION OF EXIST. UTILITIES IS APPROXIMATE. CONTRACTOR SHALL LOCATE AND FIELD VERIFY ELEVATION OF EXIST. UTILITIES. CONTRACTOR SHALL COORDINATE WITH RESIDENT OBSERVER TO MAKE ADJUSTMENTS AS NECESSARY.
 2. ADDITIONAL EXIST. UTILITIES OTHER THAN THOSE SHOWN WILL BE ENCOUNTERED. CONTRACTOR SHALL WORK CLOSELY WITH REPRESENTATIVES OF THE LOCAL UTILITIES.
 3. GAS LINE SHALL BE LOWERED GRADUALLY WITHOUT FITTINGS TO MEET THE REQUIRED DEPTH OF THE PROPOSED CASING @ HIGHWAY STA. 206+80.
 4. NEITHER THE EXISTING NOR THE PROPOSED WATER SERVICE LINES ARE SHOWN ON THE PROFILES.
 5. NEITHER THE EXISTING NOR THE PROPOSED GAS SERVICE LINES ARE SHOWN ON THE PROFILES.
 6. NEITHER THE EXISTING NOR THE PROPOSED SEWER LATERALS ARE SHOWN ON THE PROFILES.

MicroStation v8.11.7.180 E-SHEET NAME: WEST LIBERTY US460&K7 IMPROVEMENTS/CAO PHASE II UDN FIELDS/TEST.DWG
 USER: sdpfwn DATE PLOTTED: August 26, 2015
 FILE NAME: P:\ENGR\ENV\4239-00 WEST LIBERTY US460&K7 IMPROVEMENTS/CAO PHASE II UDN FIELDS/TEST.DWG

212+20 212+40 212+60 212+80 213+00
 WEST LIBERTY
 KY 7 - MAIN STREET
 GAS PROFILES

P:\engr\env\423900 West Liberty US460&K7 Improvements\CAO PHASE II REVISED DWG PLANS 2.17.10\12 UJ7 PHASE II Gas Water Profiles Revised.dwg, 11/29/2017 4:46:20 PM, DWG To PDF.pc3

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U17

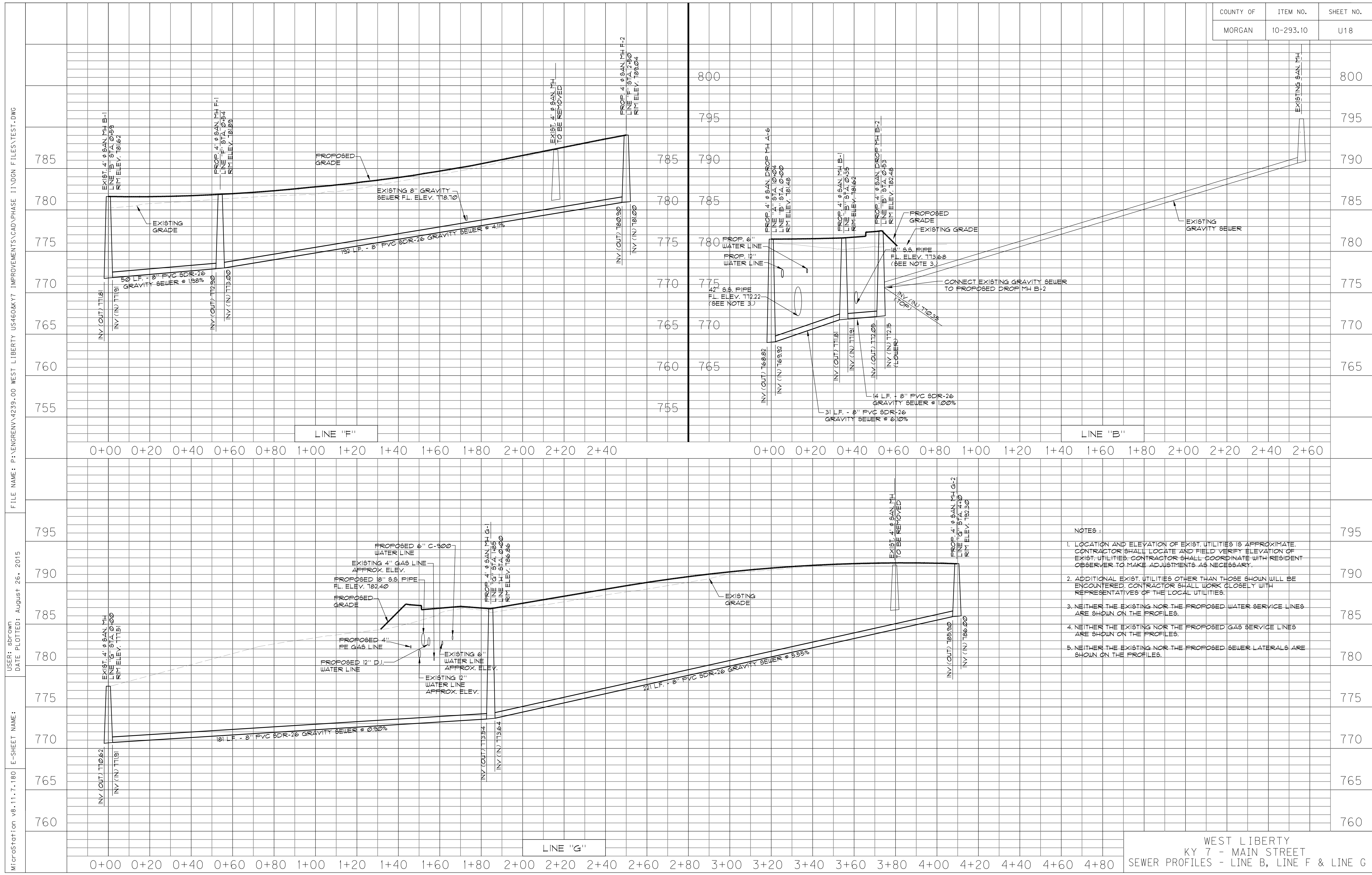


- NOTES:
1. LOCATION AND ELEVATION OF EXIST. UTILITIES IS APPROXIMATE. CONTRACTOR SHALL LOCATE AND FIELD VERIFY ELEVATION OF EXIST. UTILITIES. CONTRACTOR SHALL COORDINATE WITH RESIDENT OBSERVER TO MAKE ADJUSTMENTS AS NECESSARY.
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 5. NEITHER THE EXISTING NOR THE PROPOSED SEWER LATERALS ARE SHOWN ON THE PROFILES.

MicroStation v8.11.7.180 E-SHEET NAME: WEST LIBERTY US460&KY7 IMPROVEMENTS/CAD PHASE II/NOGN FILES/TEST.DWG
 USER: sdtown DATE PLOTTED: August 26, 2015
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WEST LIBERTY
 KY 7 - MAIN STREET
 GAS PROFILES

P:\engr\423900 West Liberty US460&KY7 Improvements\CAD PHASE II REVISED DWG PLANS 2.17.10\12 U17 PHASE II Gas Water Profiles Revised.dwg, 11/29/2017 4:45:56 PM, DWG To PDF.pc3



COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U18

- NOTES:
1. LOCATION AND ELEVATION OF EXIST. UTILITIES IS APPROXIMATE. CONTRACTOR SHALL LOCATE AND FIELD VERIFY ELEVATION OF EXIST. UTILITIES. CONTRACTOR SHALL COORDINATE WITH RESIDENT OBSERVER TO MAKE ADJUSTMENTS AS NECESSARY.
 2. ADDITIONAL EXIST. UTILITIES OTHER THAN THOSE SHOWN WILL BE ENCOUNTERED. CONTRACTOR SHALL WORK CLOSELY WITH REPRESENTATIVES OF THE LOCAL UTILITIES.
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 5. NEITHER THE EXISTING NOR THE PROPOSED SEWER LATERALS ARE SHOWN ON THE PROFILES.

WEST LIBERTY
 KY 7 - MAIN STREET
 SEWER PROFILES - LINE B, LINE F & LINE G

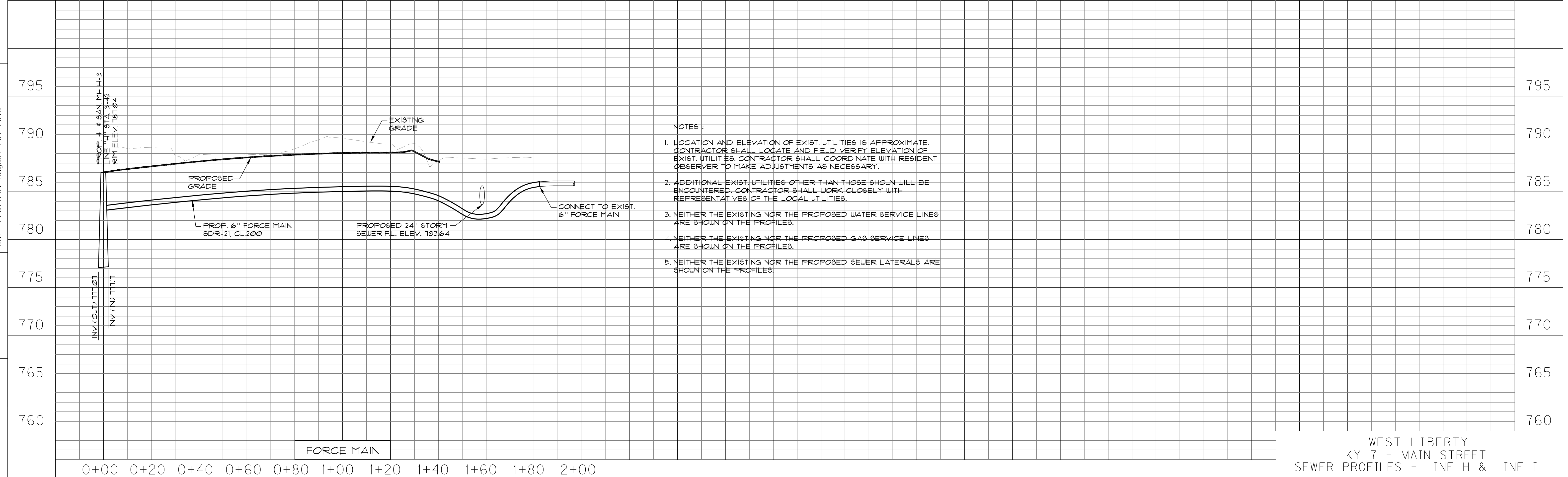
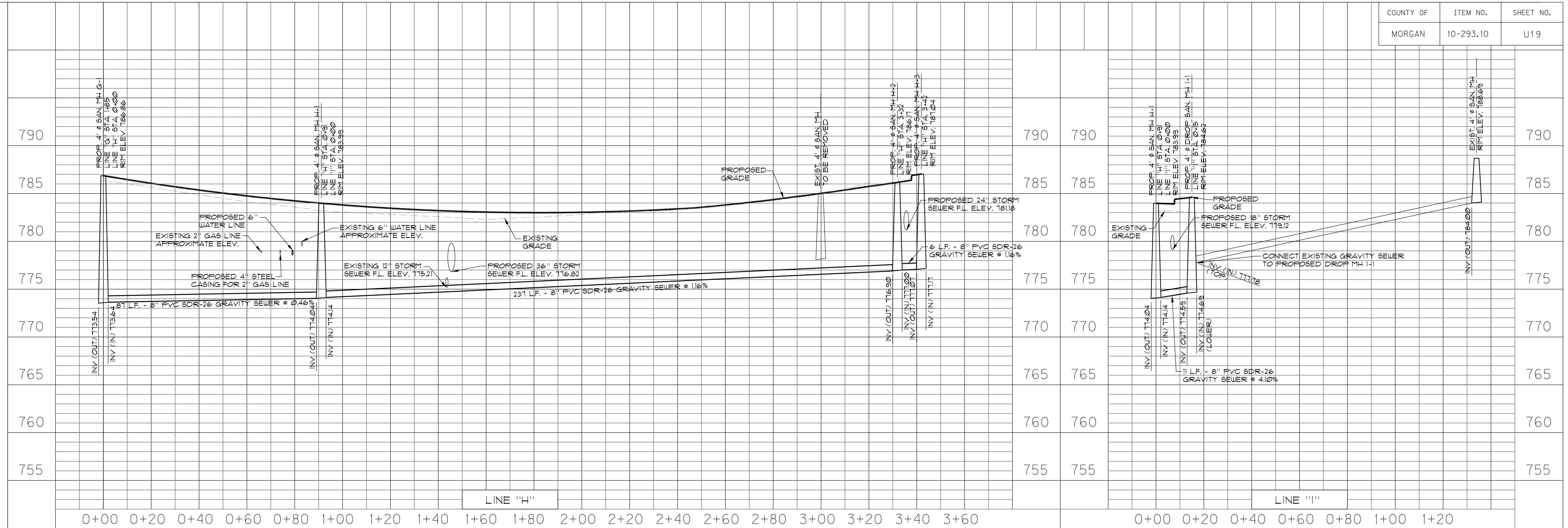
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 USER: sbrown
 DATE PLOTTED: August 26, 2015
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FILE NAME: P:\ENGR\NV\4239-00 WEST LIBERTY US4608K7 IMPROVEMENTS\CAD\PHASE 11\DCN FILES\TEST.DWG

USER: sbrwn
DATE PLOTTED: August 26, 2015

MICROSTATION V8.11.7.180 E-SHEET NAME:

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U19



- NOTES:
1. LOCATION AND ELEVATION OF EXIST. UTILITIES IS APPROXIMATE. CONTRACTOR SHALL LOCATE AND FIELD VERIFY ELEVATION OF EXIST. UTILITIES. CONTRACTOR SHALL COORDINATE WITH RESIDENT OBSERVER TO MAKE ADJUSTMENTS AS NECESSARY.
 2. ADDITIONAL EXIST. UTILITIES OTHER THAN THOSE SHOWN WILL BE ENCOUNTERED. CONTRACTOR SHALL WORK CLOSELY WITH REPRESENTATIVES OF THE LOCAL UTILITIES.
 3. NEITHER THE EXISTING NOR THE PROPOSED WATER SERVICE LINES ARE SHOWN ON THE PROFILES.
 4. NEITHER THE EXISTING NOR THE PROPOSED GAS SERVICE LINES ARE SHOWN ON THE PROFILES.
 5. NEITHER THE EXISTING NOR THE PROPOSED SEWER LATERALS ARE SHOWN ON THE PROFILES.

WEST LIBERTY
KY 7 - MAIN STREET
SEWER PROFILES - LINE H & LINE I

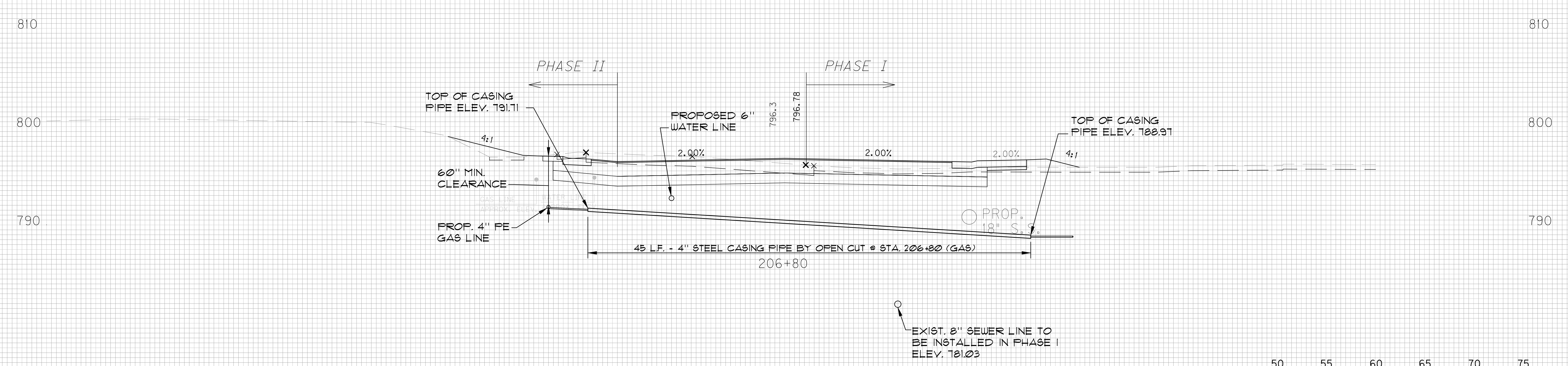
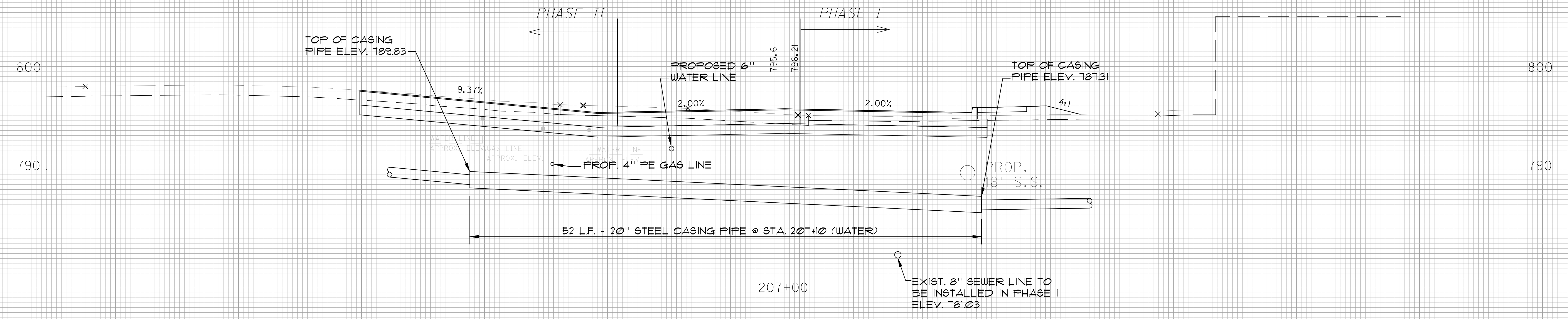
COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U20

FILE NAME: G:\ENGR\HDI176.08\PHASE II - NORTH LEG\CAD\SEC\MAIN STREET US460 AND KY7 NORTH.DGN

USER: msides
DATE PLOTTED: February 3, 2016

E-SHEET NAME:

MicroStation v8.11.3.459



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

50 55 60 65 70 75
KY 7 - MAIN STREET
STA. 206+80 and STA. 207+00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45

800
790

810
800
790

P:\engr\023900 West Liberty US460&KY7 Improvements\CAD\PHASE II REVISED DWG PLANS 2.17.16\20 U22 Main Street US460 and KY7 North.dwg, 11/29/2017 4:13:31 PM, DWG To PDF.pc3

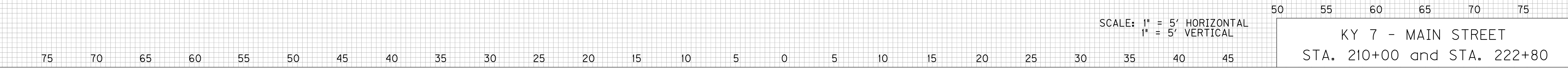
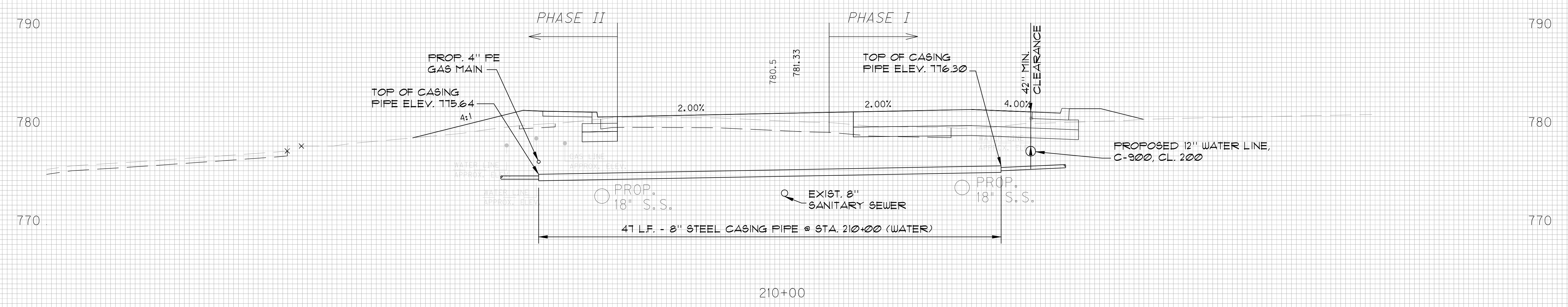
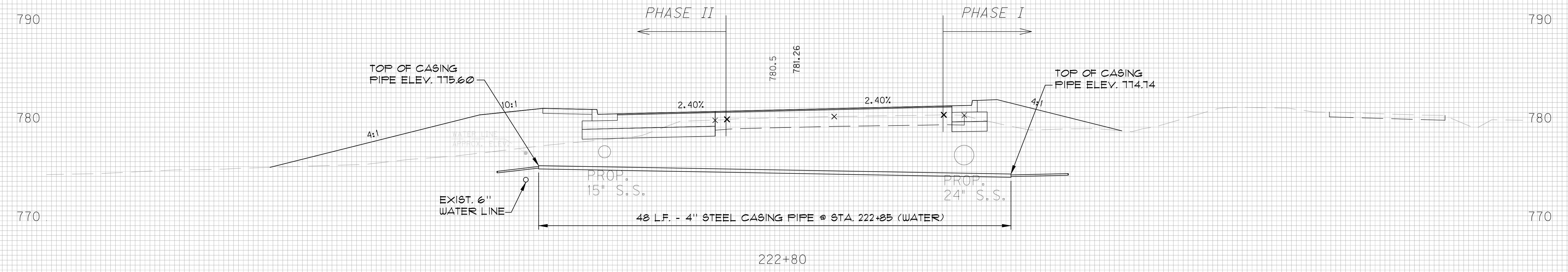
COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U21

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USER: msides
DATE PLOTTED: February 3, 2016

E-SHEET NAME:

MicroStation v8.11.9.459



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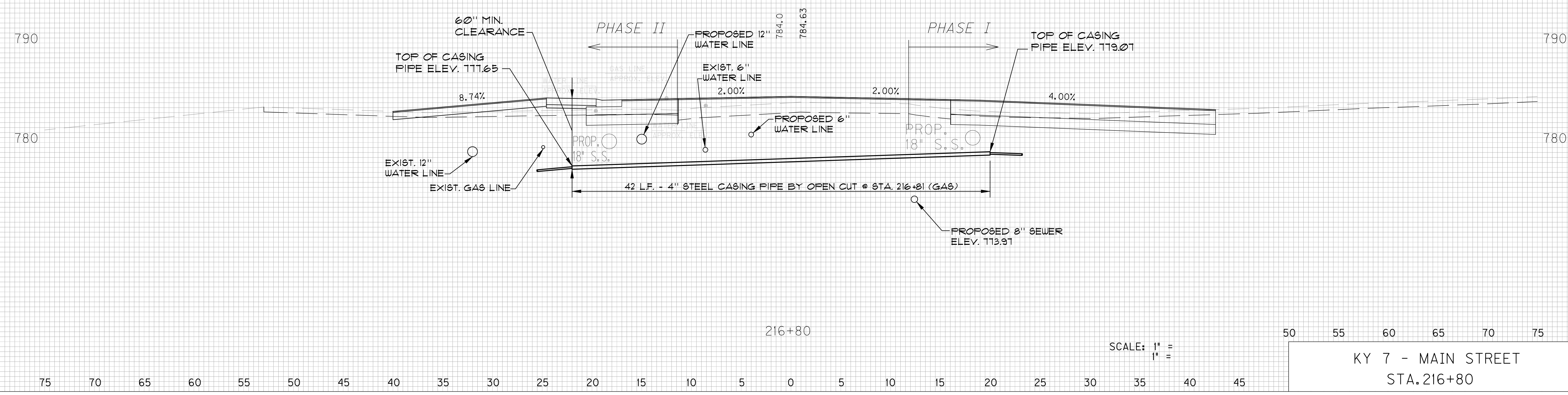
COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U22

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USER: msipes
DATE PLOTTED: February 3, 2016

E-SHEET NAME:

MicroStation v8.11.9.459



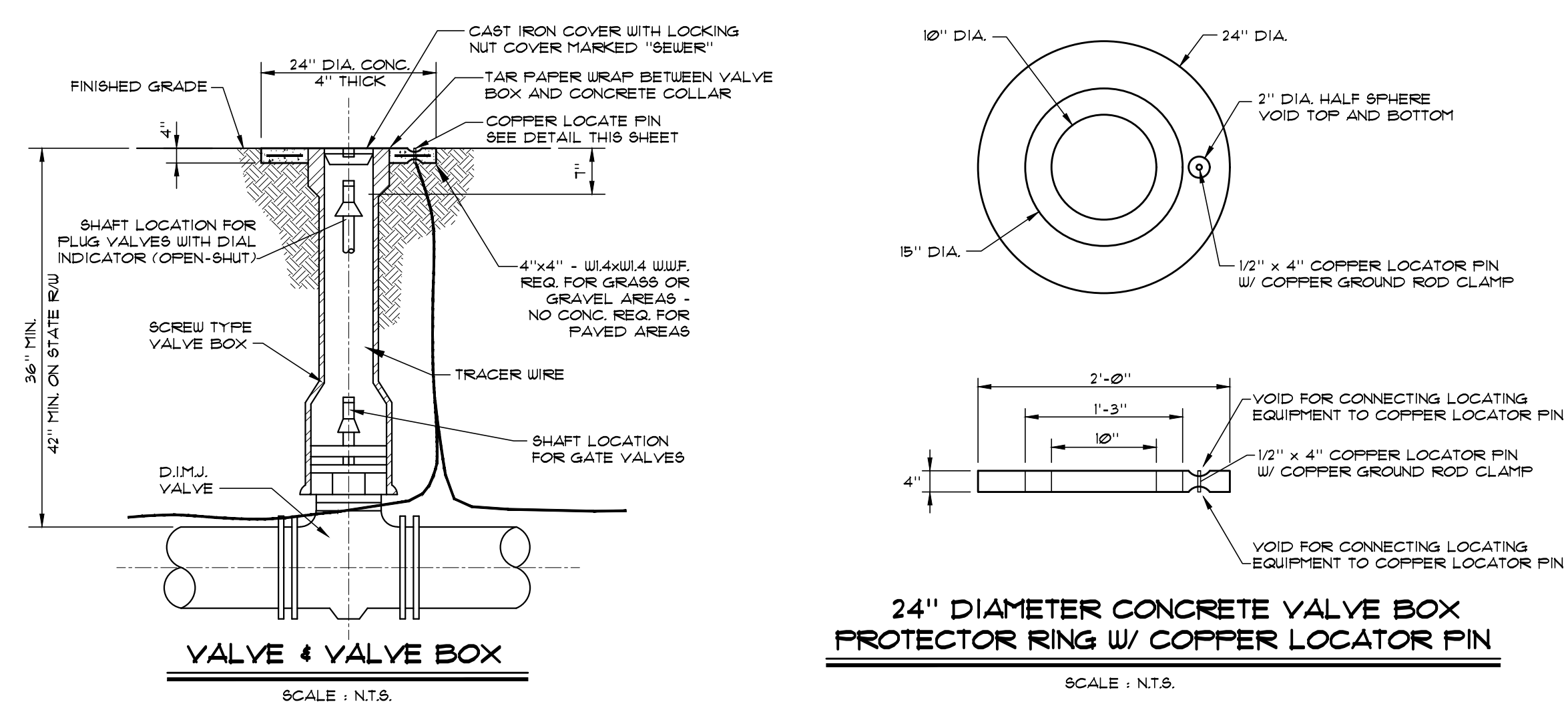
50 55 60 65 70 75
 KY 7 - MAIN STREET
 STA. 216+80

SCALE: 1" = 1' =

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45

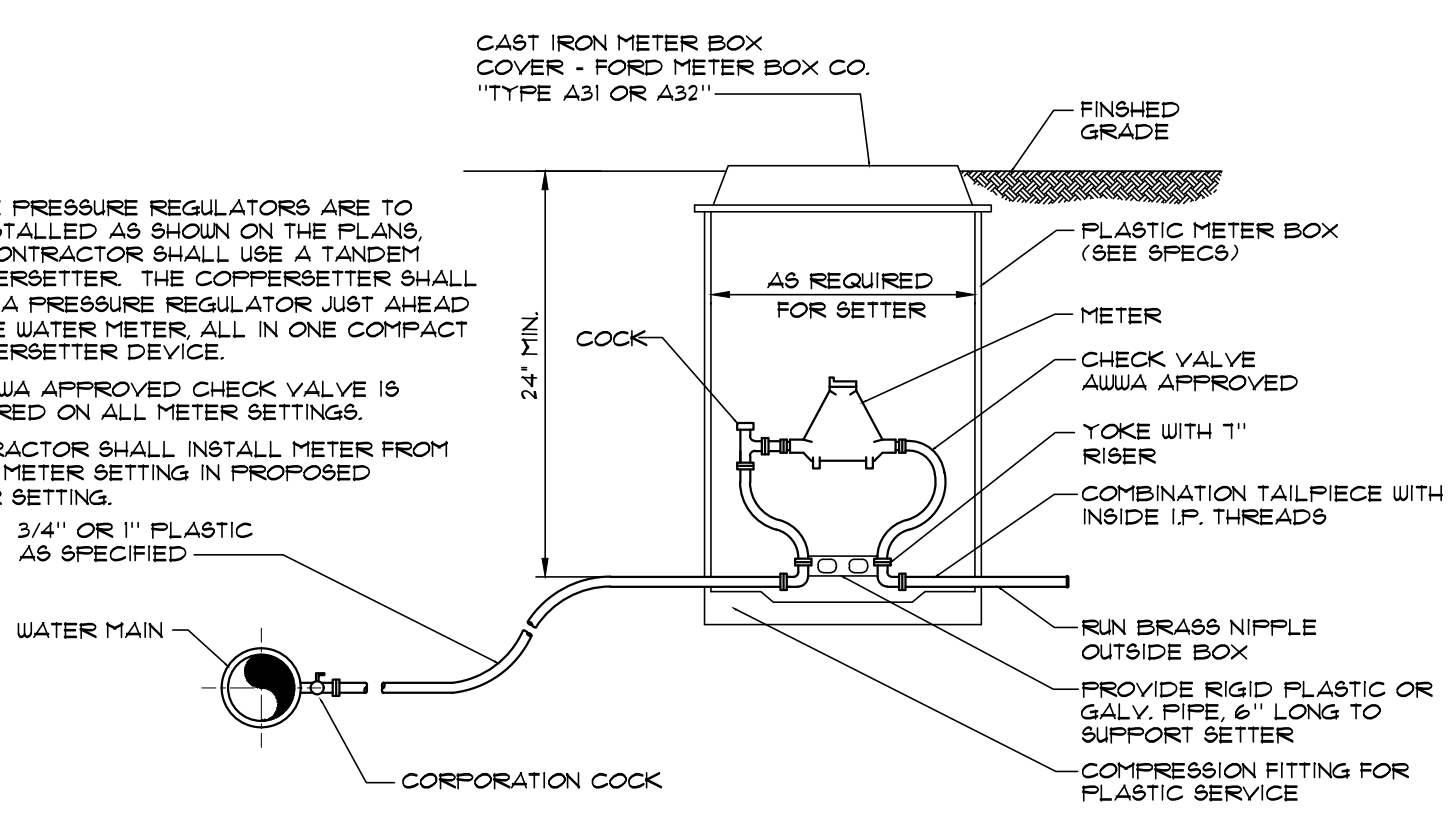
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COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U23



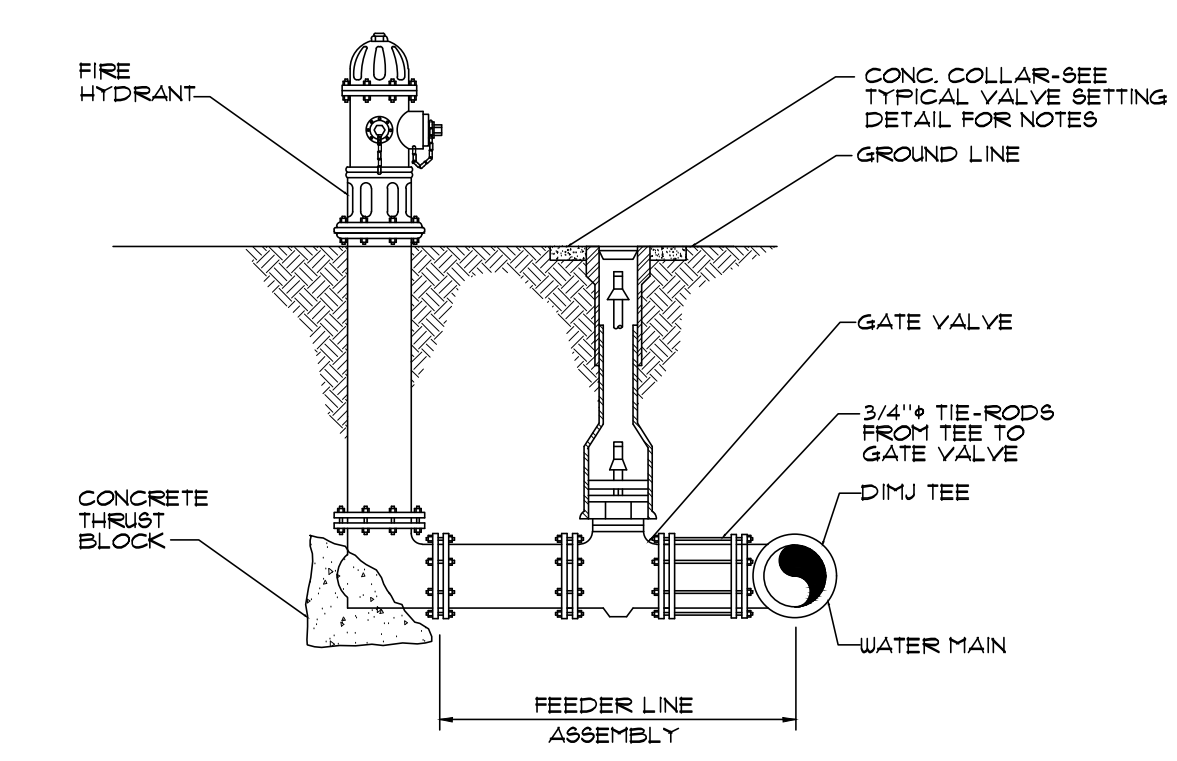
REFER TO SPECIAL CONDITIONS FOR REQUIRED MATERIALS

- NOTES:
- WHERE PRESSURE REGULATORS ARE TO BE INSTALLED AS SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE A TANDEN COPPERSETTER. THE COPPERSETTER SHALL HOLD A PRESSURE REGULATOR JUST AHEAD OF THE WATER METER, ALL IN ONE COMPACT COPPERSETTER DEVICE.
 - AN AWWA APPROVED CHECK VALVE IS REQUIRED ON ALL METER SETTINGS.
 - CONTRACTOR SHALL INSTALL METER FROM EXIST. METER SETTING IN PROPOSED METER SETTING.



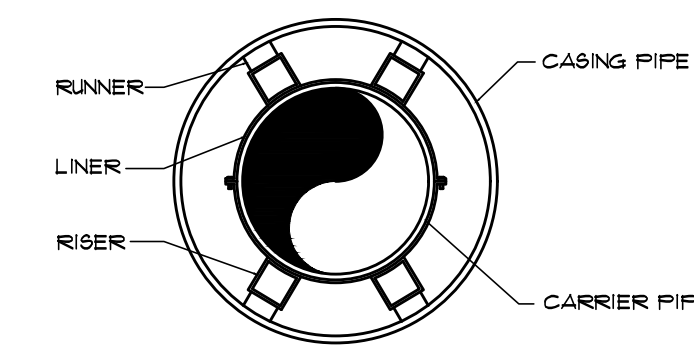
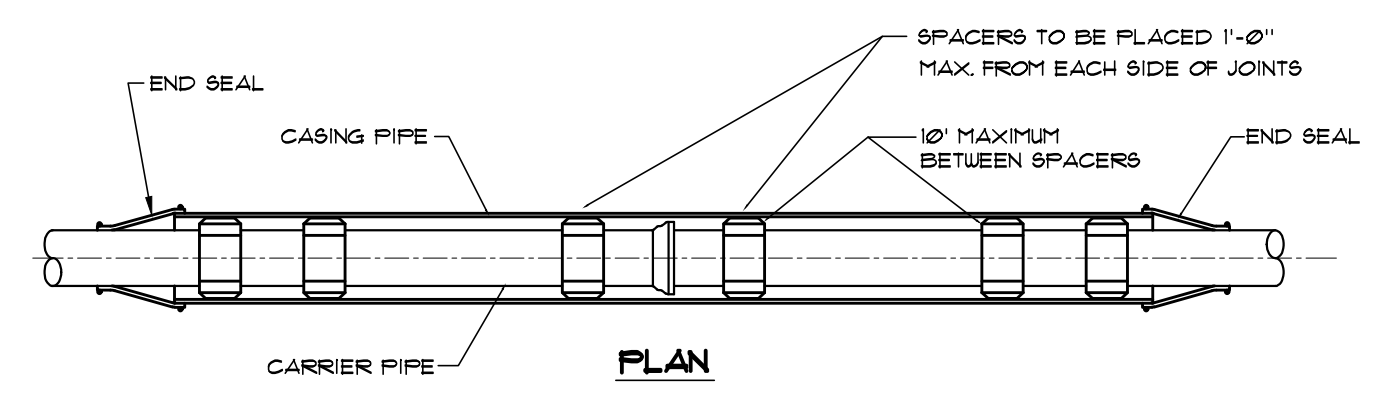
TYPICAL METER SETTING
5/8" x 3/4" & 1" SERVICES
SCALE: N.T.S.

REFER TO SPECIAL CONDITIONS FOR REQUIRED MATERIALS



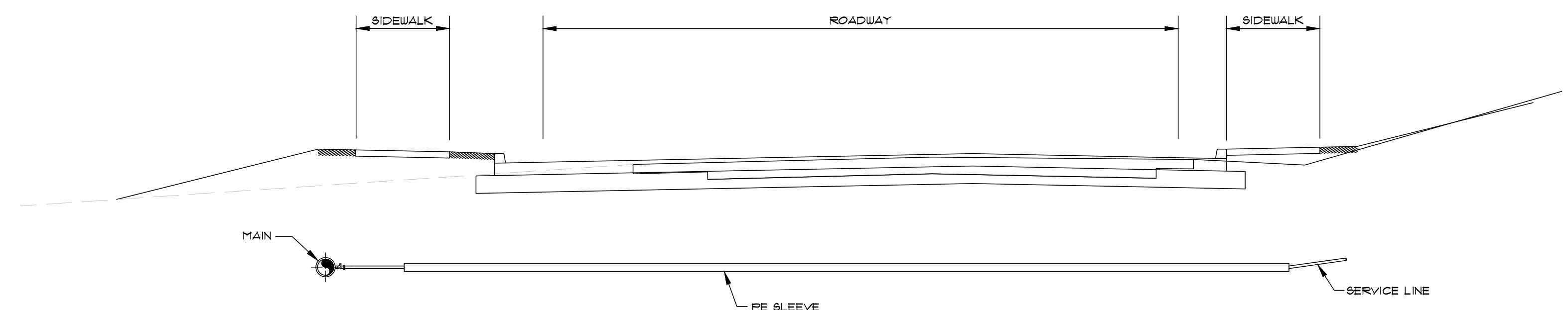
FIRE HYDRANT (3 NOZZLE) OR SINGLE NOZZLE BLOW-OFF HYDRANT (1 NOZZLE)
SCALE: N.T.S.

REFER TO SPECIAL CONDITIONS FOR REQUIRED MATERIALS



ENCASEMENT PIPE SPACER
SCALE: N.T.S.

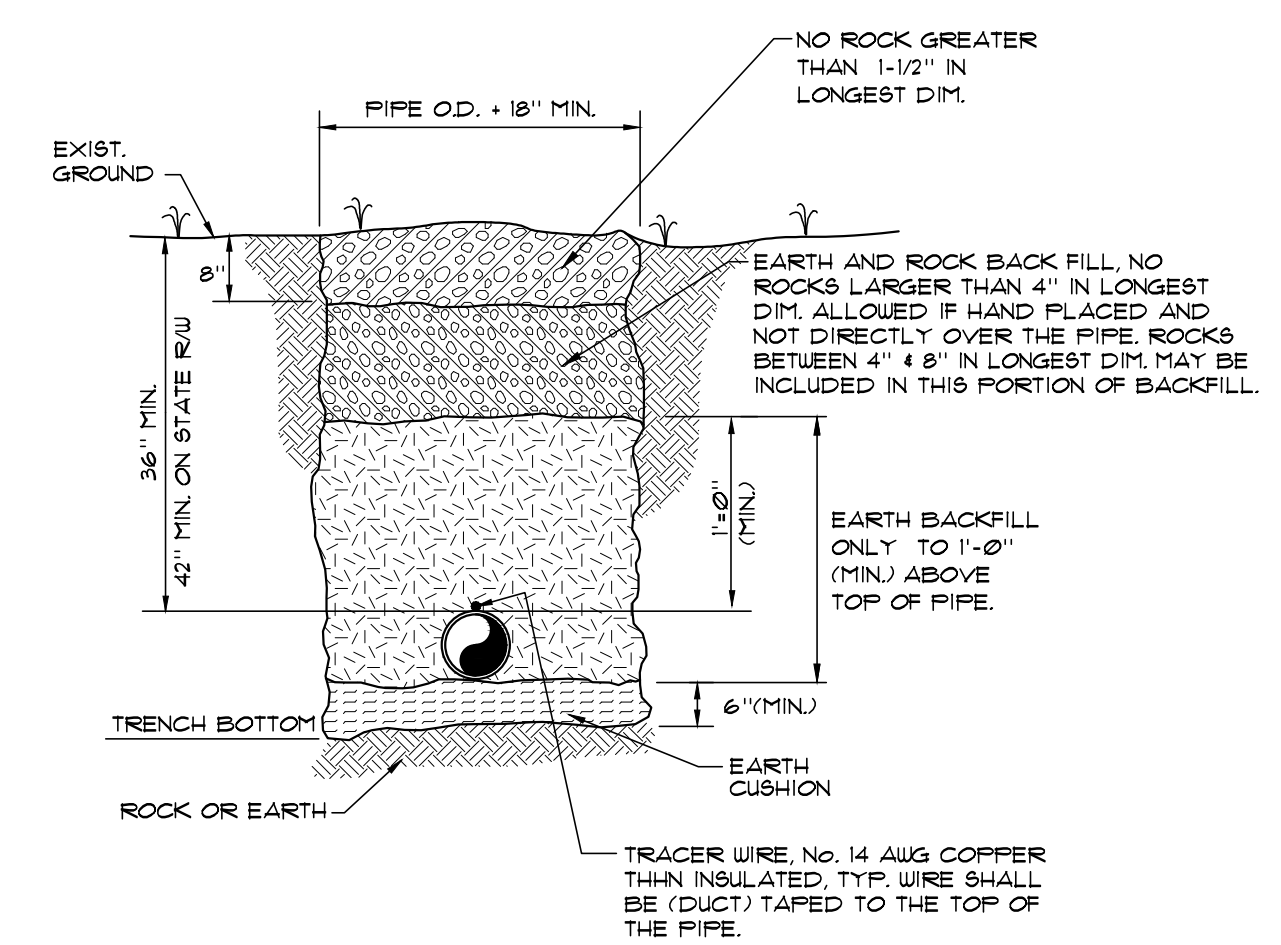
- TYPICAL ROAD CROSSING NOTES:
- ALL JOINTS SHALL BE SOLIDLY WELDED, END OF CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
 - MINIMUM DEPTHS MAY INCREASE IN AREAS WHICH REQUIRE MINIMUM SEPARATION WITH OTHER FACILITIES.
 - OPEN TRENCH NO CLOSER THAN THE DITCH LINE OR TOE OF FILL FROM THE EDGE OF THE PAVEMENT OR AS DIRECTED BY STATE, COUNTY OR MUNICIPAL SPECIFICATIONS.
 - HIGHWAY CROSSINGS SHALL UTILIZE STEEL CASING PIPE. STEEL CASING PIPES 4" AND LESS SHALL BE NEW SCHEDULE 40. STEEL CASING PIPES LARGER THAN 4" SHALL HAVE MINIMUM WALL THICKNESS OF 0.25". ALL BORED AND JACKED ENCASEMENT PIPE SHALL BE INSTALLED IN BORE HOLES NO LARGER THAN THE OUTSIDE DIAMETER OF THE ENCASEMENT PIPE.



NOTE: WATER SERVICE UNDER ROADWAY SHALL BE ENCASED IN A PE SLEEVE. THE PE SLEEVE SHALL EXTEND FROM THE WATER MAIN TO THE NEW WATER METER. IF CONNECTING TO AN EXISTING SERVICE, THE PE SLEEVE SHALL EXTEND FROM THE WATER MAIN TO THE PROPERTY LINE.

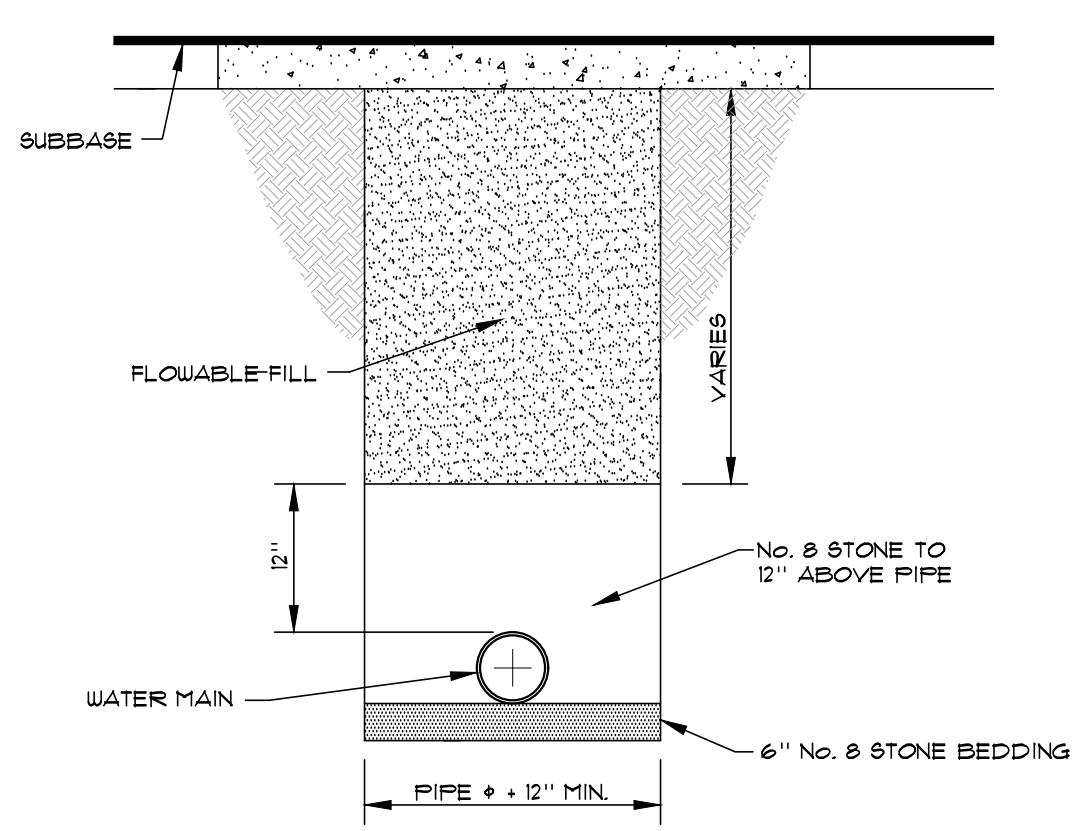
SERVICE SIZE	ENCASEMENT SIZE
3/4" - 1"	2" PE
1 1/2" - 1 3/4"	2 1/2" PE

SERVICE LINE ENCASEMENT DETAIL
SCALE: N.T.S.

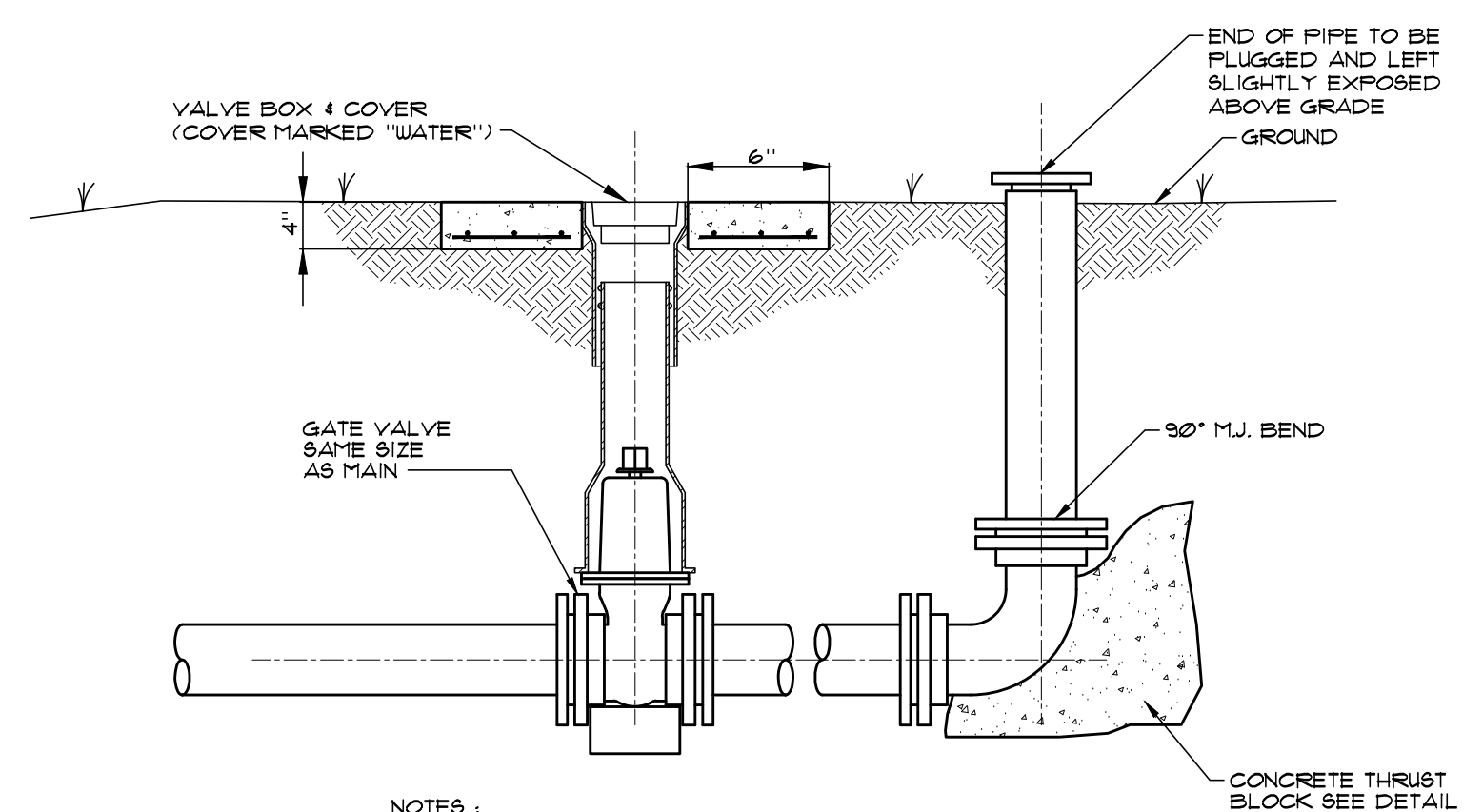


BEDDING/BACKFILL
SCALE: N.T.S.

NOTE: TRACER WIRE SHALL BE SPLICED WITH GEL FILLED WIRE CONNECTORS.



BEDDING/BACKFILL IN ROADWAY
SCALE: N.T.S.



NOTES:
90° BEND TO BE INSTALLED AT AN ELEVATION LOWER THAN THE MAIN LINE TO FACILITATE DRAINAGE. PROVIDE WEEP HOLES IN 90° ELBOW. DO NOT ALLOW WEEP HOLES TO BE CLOGGED WHEN POURING THRUST BLOCK.

FLUSHING ASSEMBLY
SCALE: N.T.S.

WEST LIBERTY
KY 7 - MAIN STREET
STANDARD DETAILS - WATER

FILE NAME: G:\ENR\VIDUIT6_07\PHASE II\CAD\TOTYTB\GENERAL SUMMARY.DGN

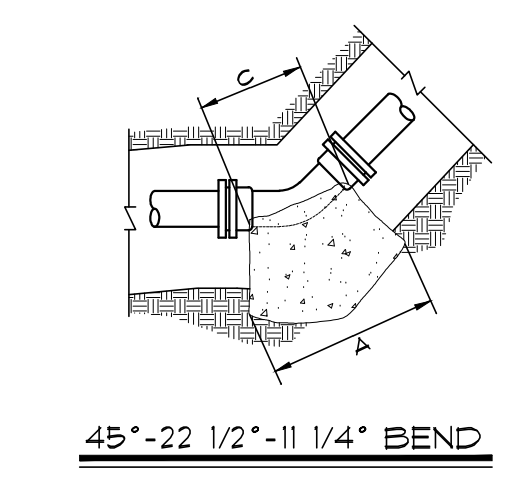
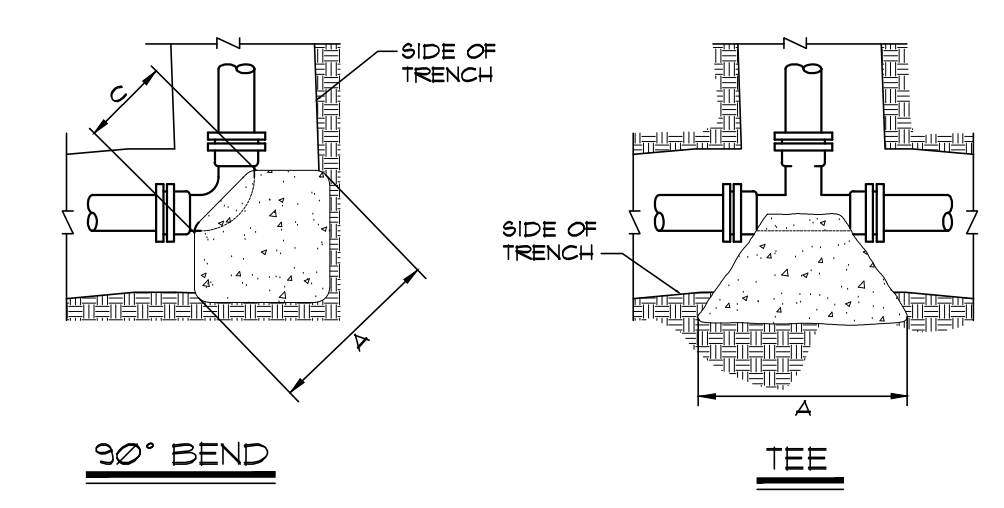
USER: jgreenwell
DATE PLOTTED: January 25, 2013

E-SHEET NAME: R002005U

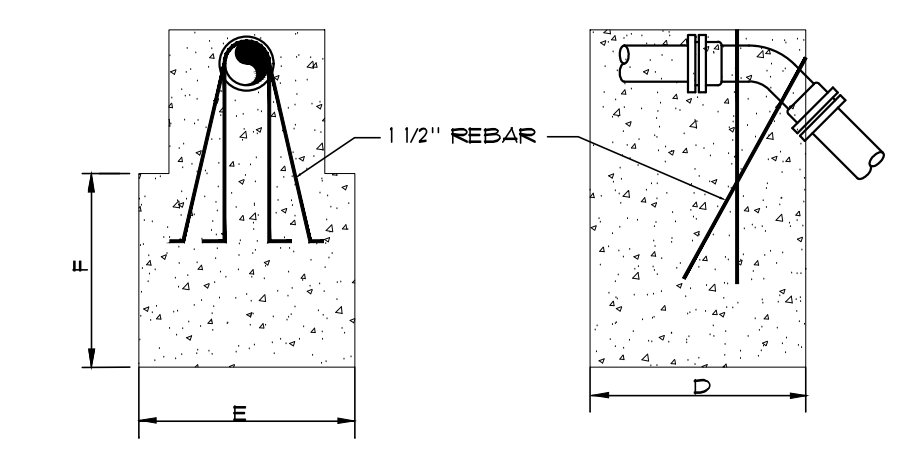
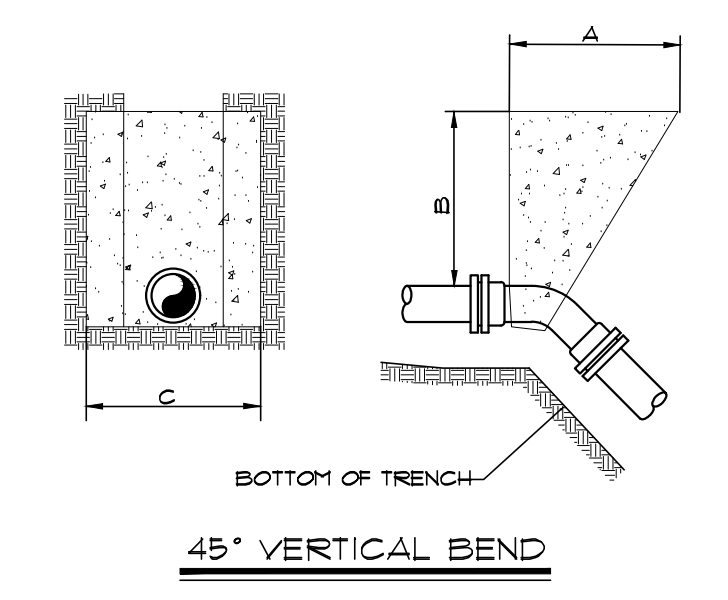
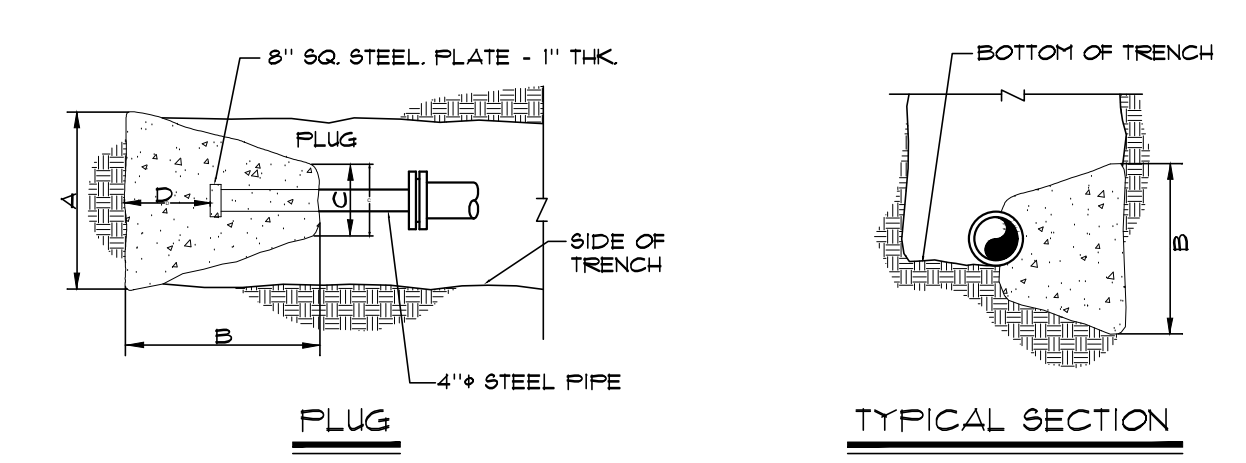
MicroStation v8.11.7.180

P:\engr\m\239300 - West Liberty US-660&K77 Improvements\CAD\PHASE II REVISED DWG PLANS 2.17.10\23 U23 STANDARD DETAILS.dwg, 11/29/2017 4:06:58 PM, DWG To PDF.pc3

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U24



- NOTES:
- THRUST BLOCKS DESIGNED FOR 100 PSI PRESSURE AND 1000 PSF SOIL BEARING. FOR GREATER PRESSURE OR LESS SOIL BEARING, QUANTITIES WILL HAVE TO BE RECALCULATED.
 - THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
 - IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN, USE NEXT LARGER SIZE.
 - THRUST BLOCKING TO BE POURED IN PLACE CLASS B CONC.



THRUST BLOCKING
SCALE: N.T.S.

90° BEND											
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"	
A	88	80	72	64	50	40	33	26	16	16	
B	88	80	72	64	50	40	33	24	16	16	
C	45	38	32	30	16	15	12	12	9	9	
D	48	40	36	32	25	20	16	12	8	9	

45° BEND											
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"	
A	72	60	54	48	37	31	24	18	12	12	
B	72	60	54	48	37	31	24	18	12	12	
C	22	20	16	18	16	14	12	12	8	8	
D	32	28	25	22	18	15	12	9	6	6	

45° VERTICAL BEND											
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"	
A	72	60	60	45	36	36	36	36	24	24	
B	60	48	48	45	36	36	36	36	24	24	
C	36	84	84	72	60	60	60	60	48	48	
D	84	72	72	60	48	48	48	48	36	36	
E	84	72	72	60	48	48	48	48	36	36	
F	84	72	72	60	48	48	48	48	36	36	

22 1/2° BEND											
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"	
A	50	42	38	34	26	23	18	13	9	9	
B	50	42	38	34	26	23	18	13	9	9	
C	22	20	16	18	16	14	12	10	8	8	
D	26	22	18	16	13	11	9	6	4	4	

11 1/4° BEND											
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"	
A	36	30	27	24	18	16	13	11	9	9	
B	36	30	27	24	18	16	13	11	9	9	
C	22	20	16	18	16	14	12	10	8	8	
D	22	18	14	12	9	8	6	5	4	4	

PLUG											
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"	
A	80	66	60	54	52	43	34	26	26	26	
B	80	66	60	54	52	43	34	26	26	26	
C	12	12	12	12	12	12	12	12	12	12	
D	72	60	54	44	32	22	15	11	11	11	

TEE											
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"	
A	80	66	60	54	52	42	26	43	26	26	
B	80	66	60	54	52	43	26	43	26	26	
C	45	36	32	30	12	12	12	12	12	12	
D	48	40	36	30	26	21	13	21	13	13	

DIMENSIONS ARE IN INCHES

FILE NAME: G:\ENGR\HD176.07\PHASE II\CAD\TYTBL\GENERAL SUMMARY.DGN

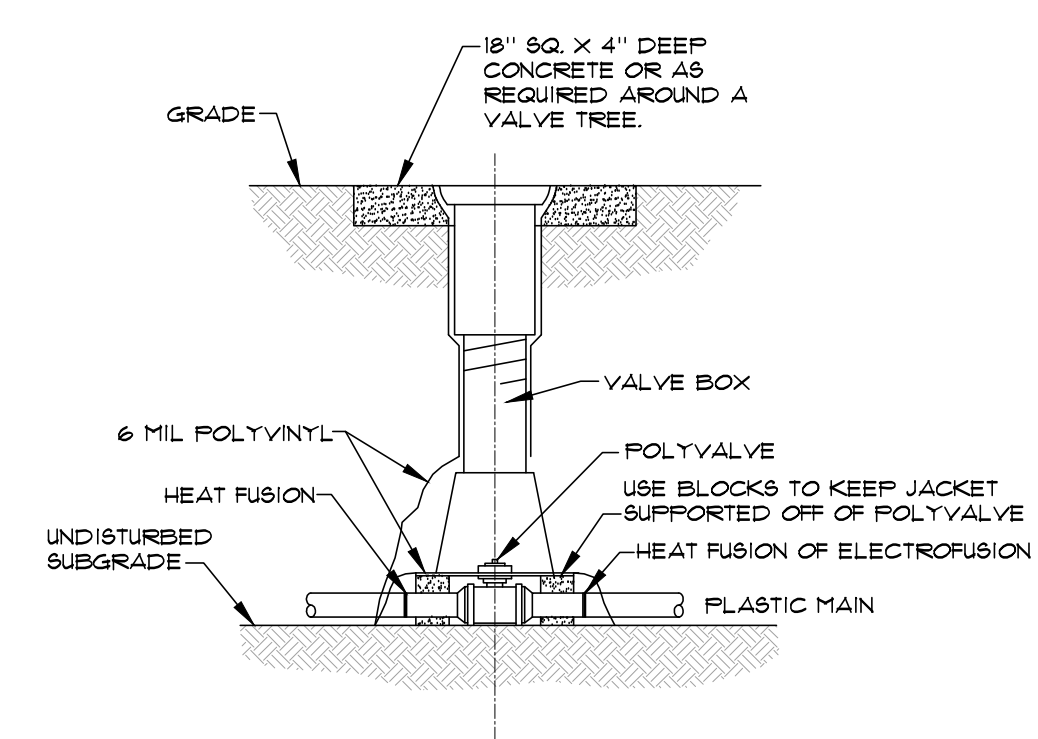
USER: jgreenwell
DATE PLOTTED: January 25, 2013

E-SHEET NAME: R0020DSU

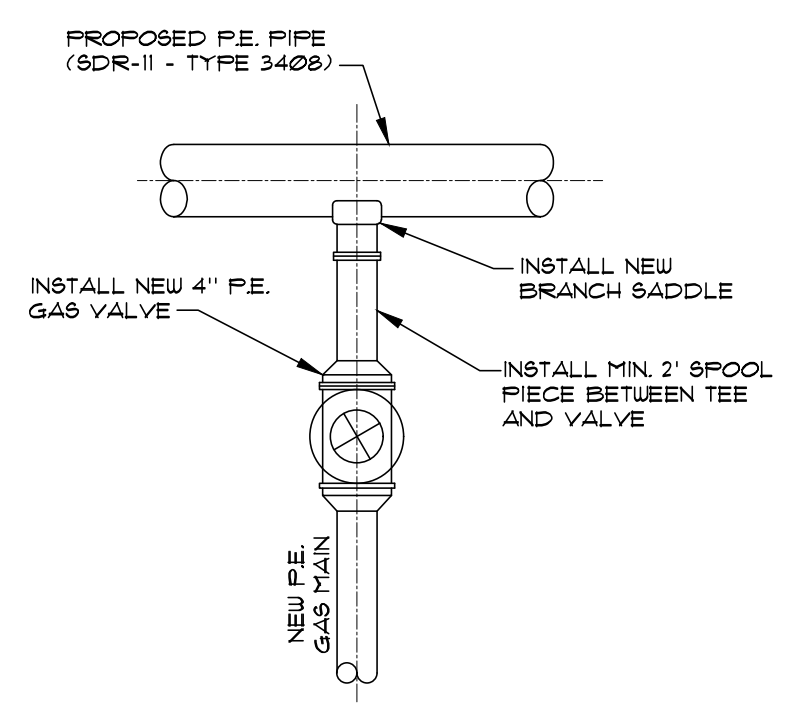
MicroStation v8.11.7.180

WEST LIBERTY
KY 7 -MAIN STREET
STANDARD DETAILS - WATER

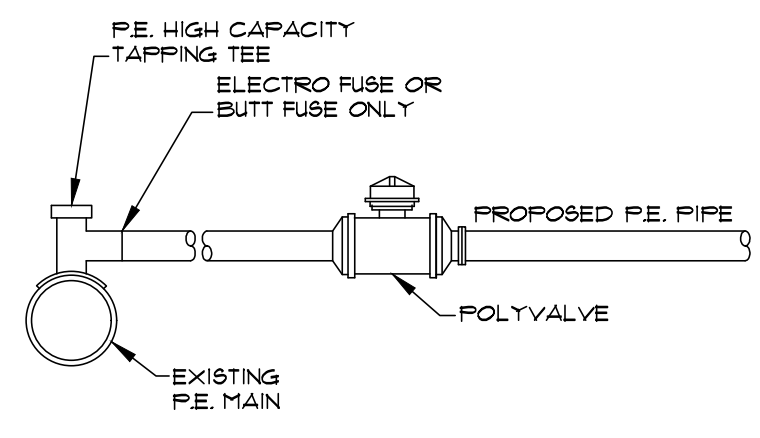
COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U25



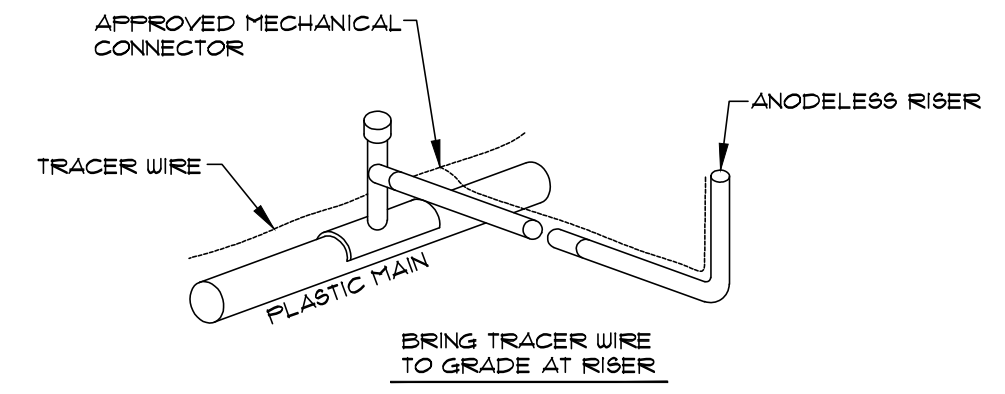
POLYVALVE INSTALLATION
SCALE : N.T.S.



BRANCH SADDLE & REDUCER DETAIL
SCALE : N.T.S.

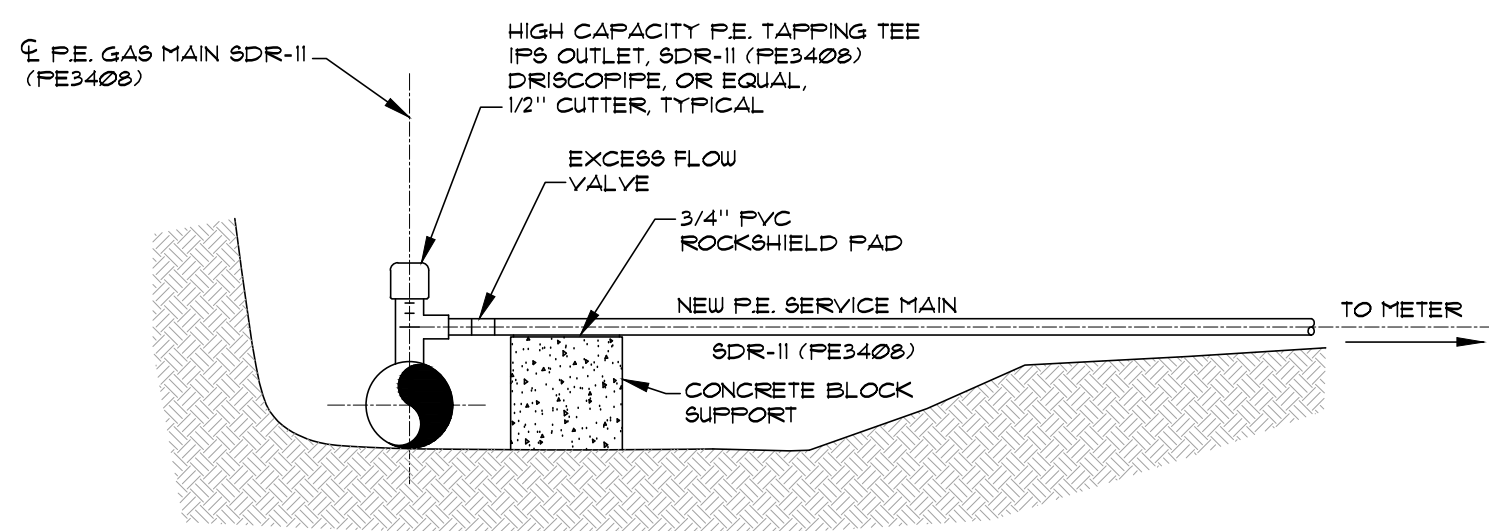


P.E. TIE-IN W/ POLYVALVE
SCALE : N.T.S.

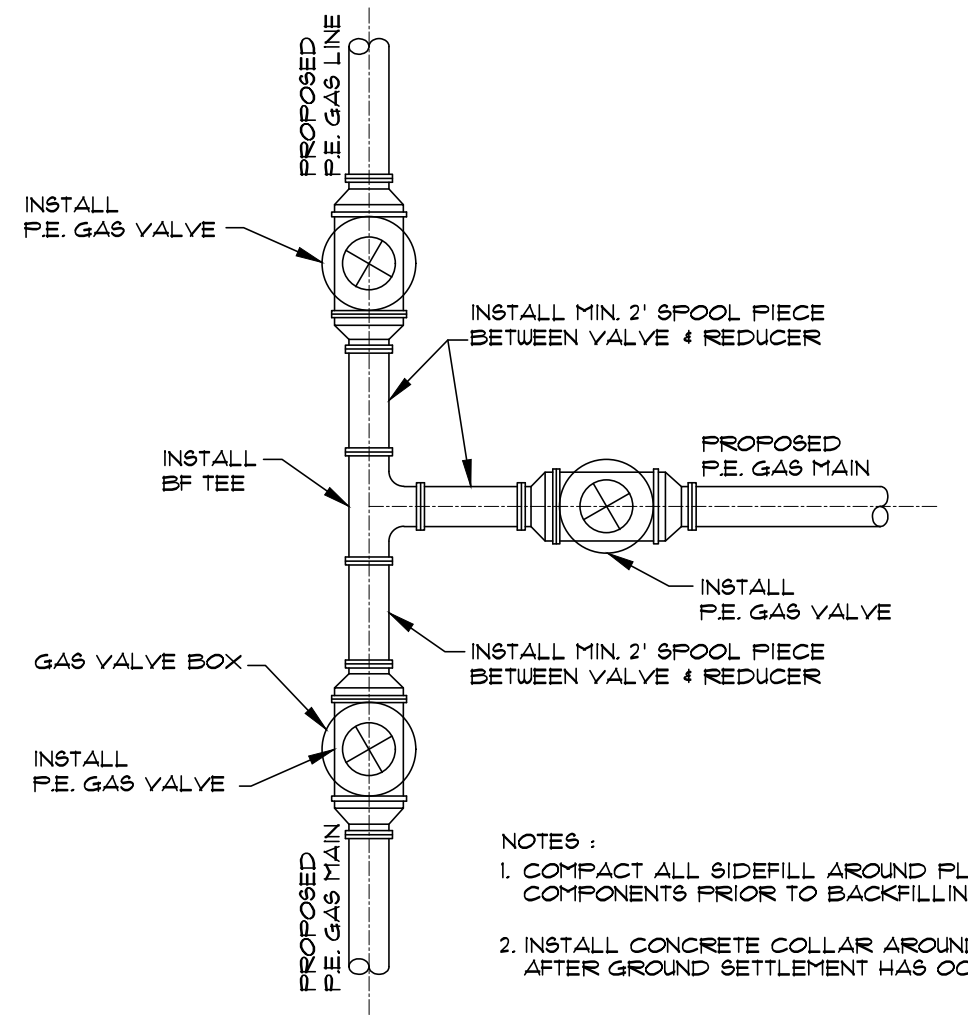


- NOTES :
1. ALL TRACER WIRE TO BE BROUGHT TO GROUND AT RISER.
 2. TRACER WIRE TO BE LAID 8" DIRECTLY ABOVE PLASTIC PIPE.

TRACER WIRE FOR PLASTIC SERVICE CONNECTION OFF PLASTIC MAIN
SCALE : N.T.S.

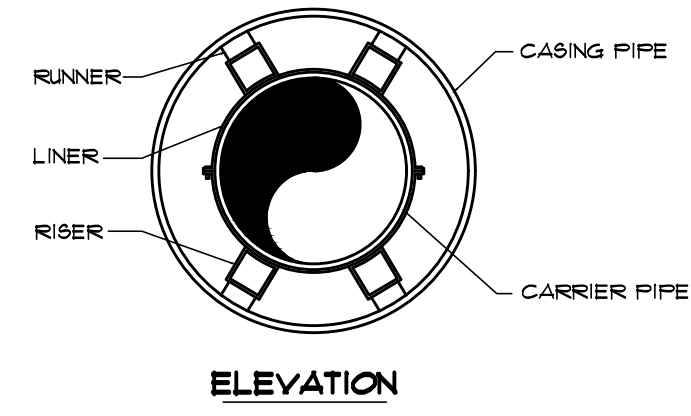
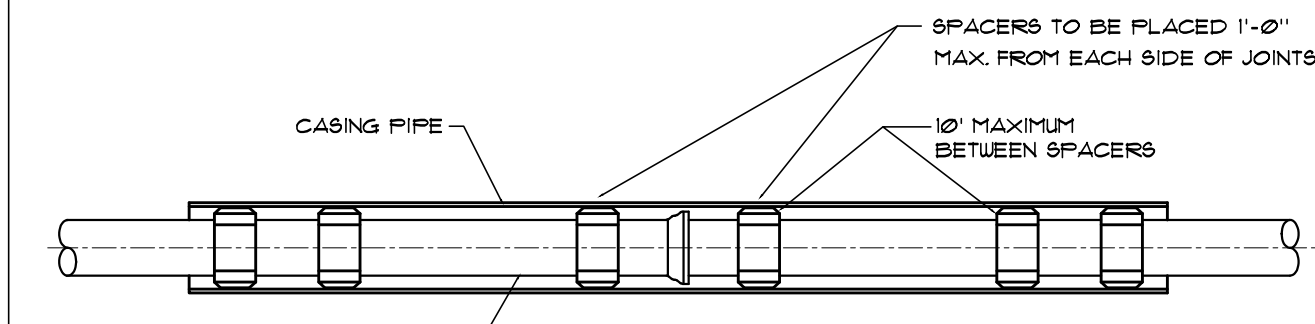


P.E. TAPPING TEE CONNECTION
SCALE : N.T.S.



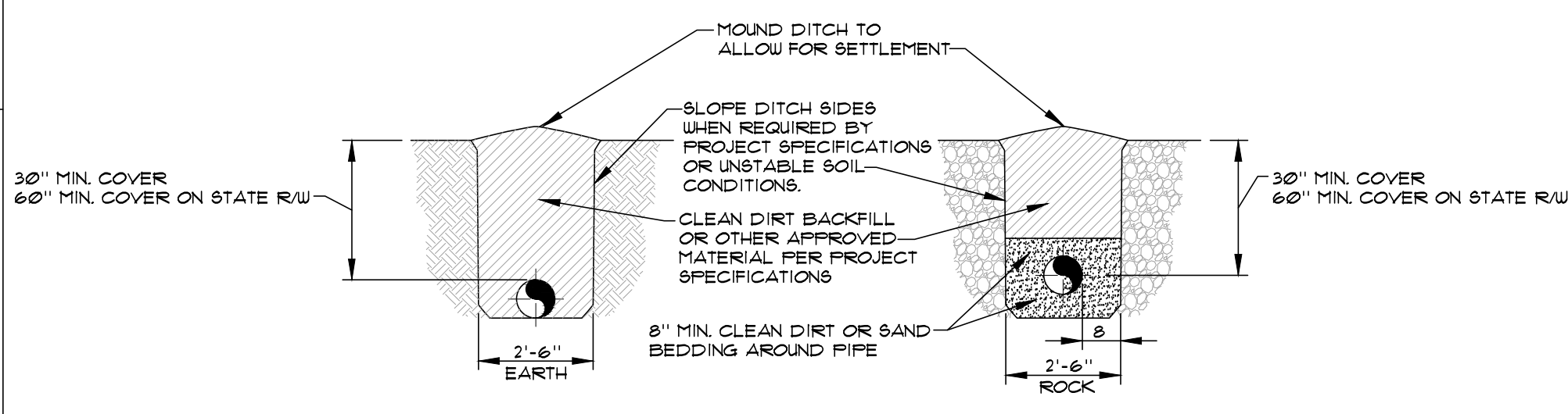
- NOTES :
1. COMPACT ALL SIDEFILL AROUND PLASTIC COMPONENTS PRIOR TO BACKFILLING.
 2. INSTALL CONCRETE COLLAR AROUND VALVES AFTER GROUND SETTLEMENT HAS OCCURRED.

MULTIPLE VALVE INSTALLATION IN ALL PLASTIC SYSTEM
SCALE : N.T.S.

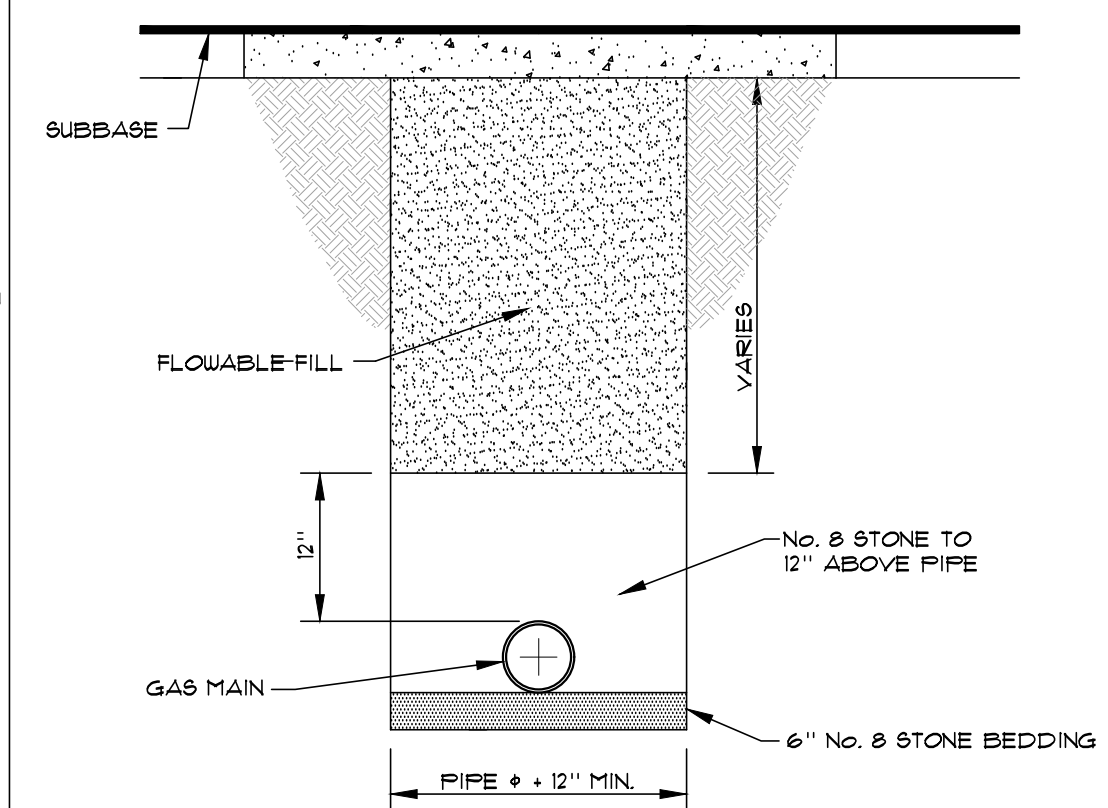


- TYPICAL ROAD CROSSING NOTES:
1. ALL JOINTS SHALL BE SOLIDLY WELDED. END OF CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
 2. MINIMUM DEPTHS MAY INCREASE IN AREAS WHICH REQUIRE MINIMUM SEPARATION WITH OTHER FACILITIES.
 3. OPEN TRENCH NO CLOSER THAN THE DITCH LINE OR TOE OF FILL FROM THE EDGE OF THE PAVEMENT OR AS DIRECTED BY STATE, COUNTY OR MUNICIPAL SPECIFICATIONS.
 4. HIGHWAY CROSSINGS SHALL UTILIZE STEEL CASING PIPE. STEEL CASING PIPES 4" AND LESS SHALL BE NEW SCHEDULE 40. STEEL CASING PIPES LARGER THAN 4" SHALL HAVE MINIMUM WALL THICKNESS OF 0.29". ALL BORED AND JACKED ENCASMENT PIPE SHALL BE INSTALLED IN BORE HOLES NO LARGER THAN THE OUTSIDE DIAMETER OF THE ENCASMENT PIPE.

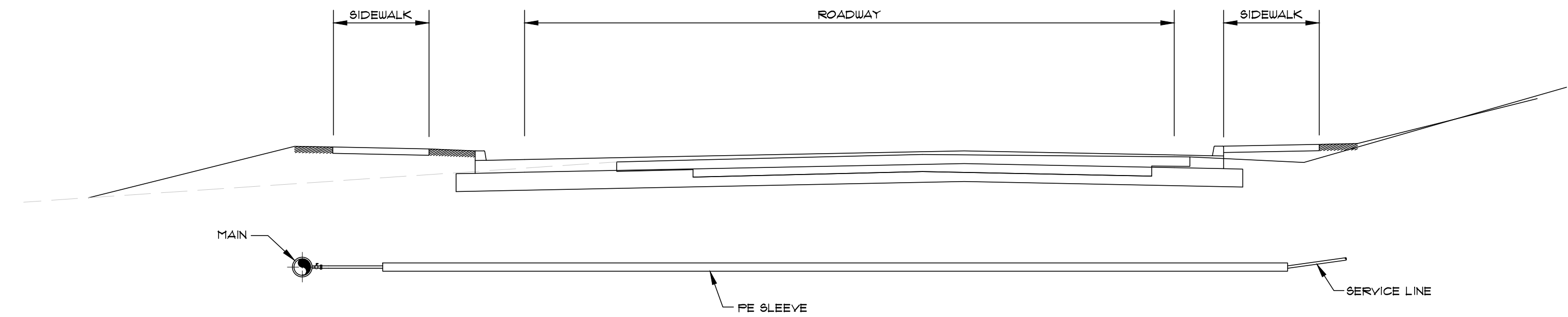
GAS ENCASMENT PIPE SPACER
SCALE : N.T.S.



BEDDING/BACKFILL
SCALE : N.T.S.



BEDDING/BACKFILL IN ROADWAY
SCALE : N.T.S.



NOTE : GAS SERVICE UNDER ROADWAY SHALL BE ENCASED IN A PE SLEEVE. THE PE SLEEVE SHALL EXTEND FROM THE GAS MAIN TO THE PROPERTY LINE.

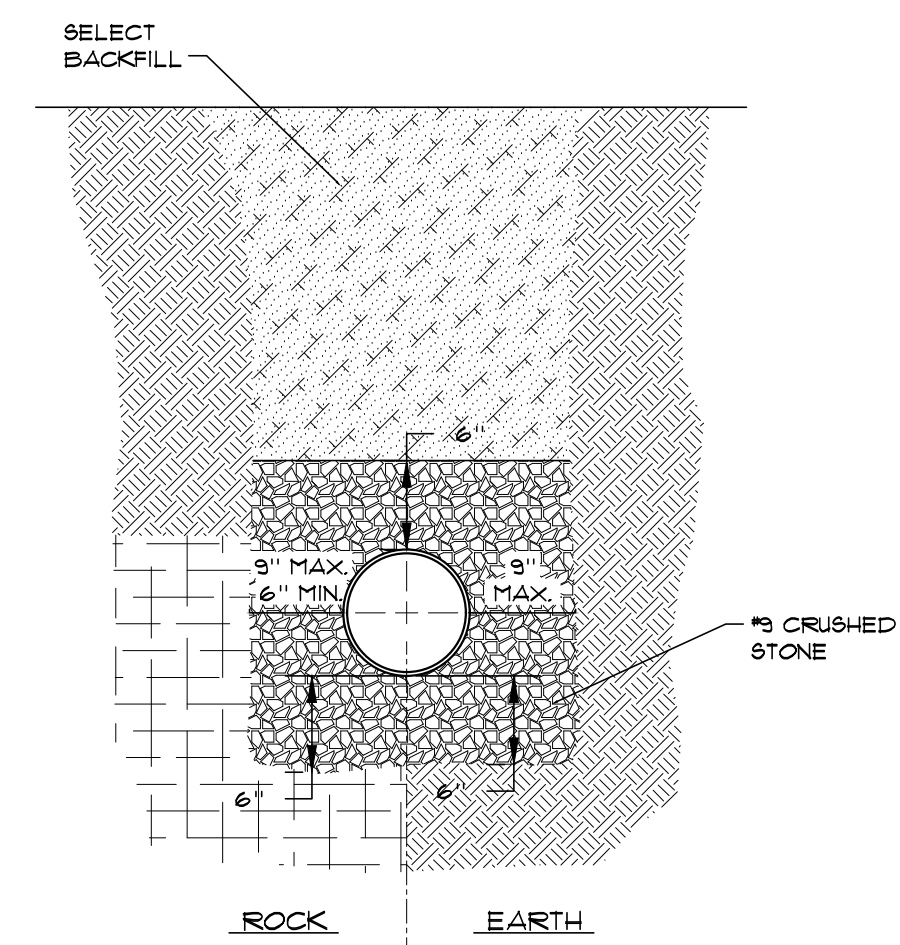
SERVICE SIZE	ENCASMENT SIZE
3/4" - 1"	2" PE
1 1/4" - 1 1/2"	2 1/2" PE

SERVICE LINE ENCASMENT DETAIL
SCALE : N.T.S.

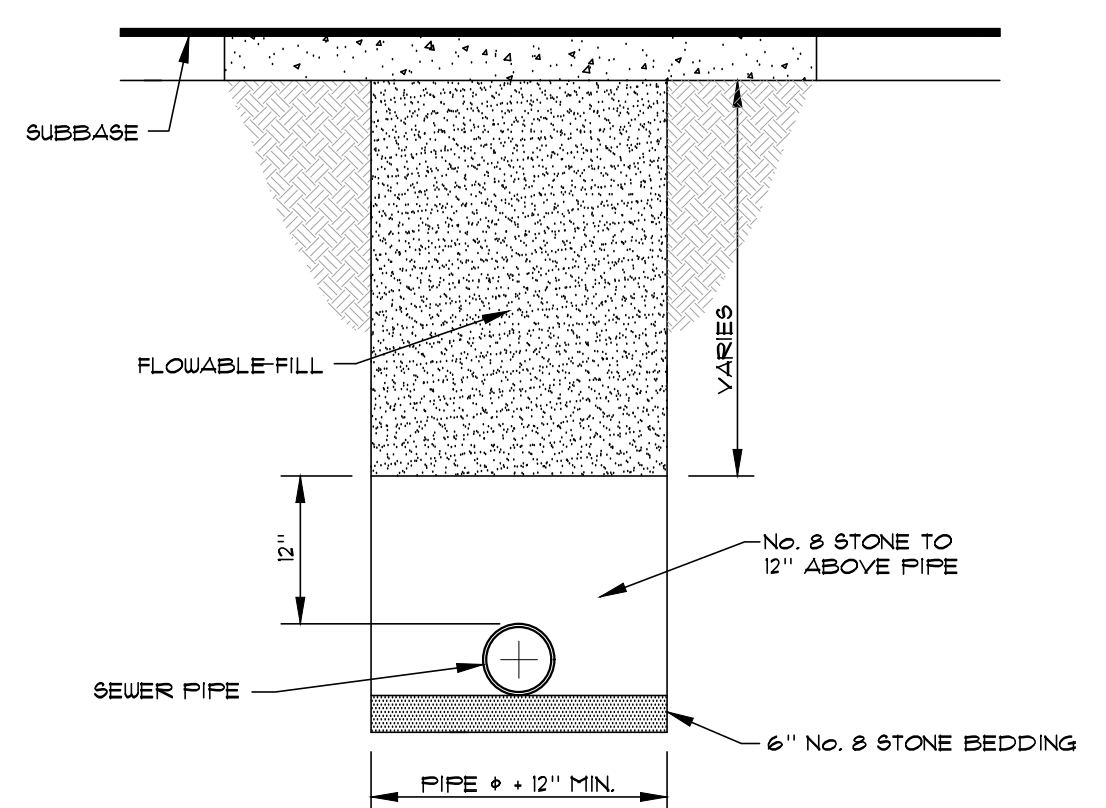
WEST LIBERTY
KY 7 - MAIN STREET
STANDARD DETAILS - GAS

FILE NAME: G:\ENGR\HD176.07\PHASE II\CAD\TYTTL\GENERAL SUMMARY.DGN
 USER: jgreenwell
 DATE PLOTTED: January 25, 2013
 E-SHEET NAME: R0020DSU
 MicroStation v8.11.7.180

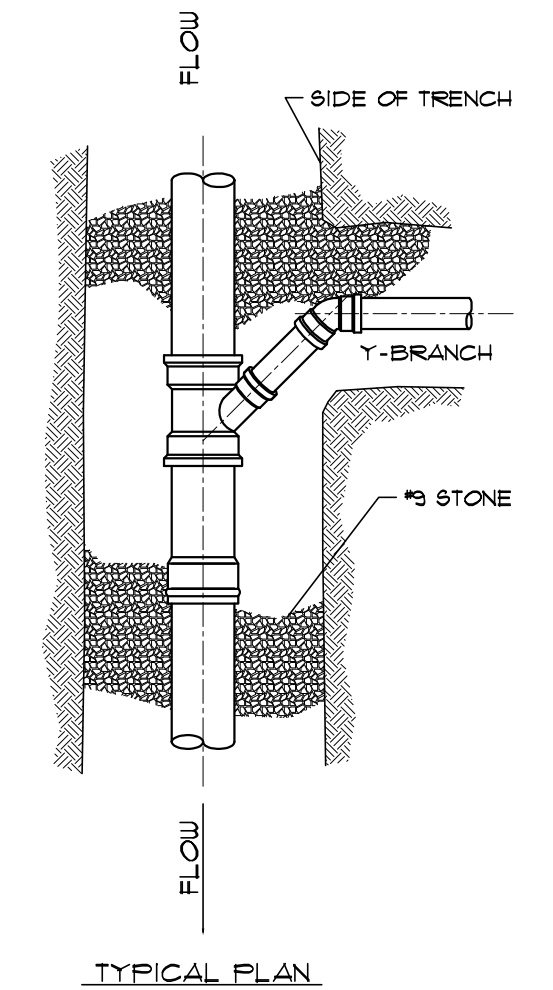
COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U26



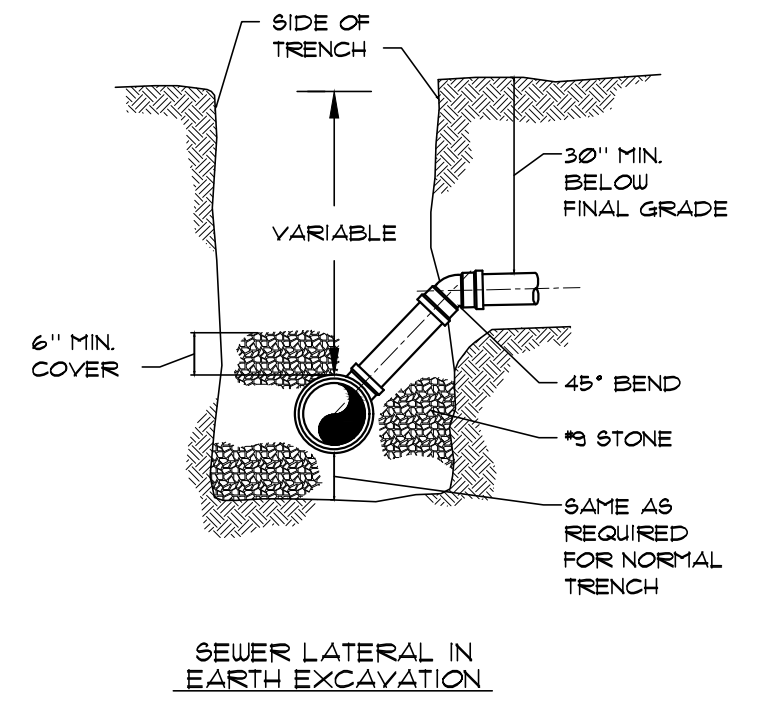
GRAVITY EMBEDMENT
SCALE : N.T.S.



GRAVITY EMBEDMENT IN ROADWAY
SCALE : N.T.S.

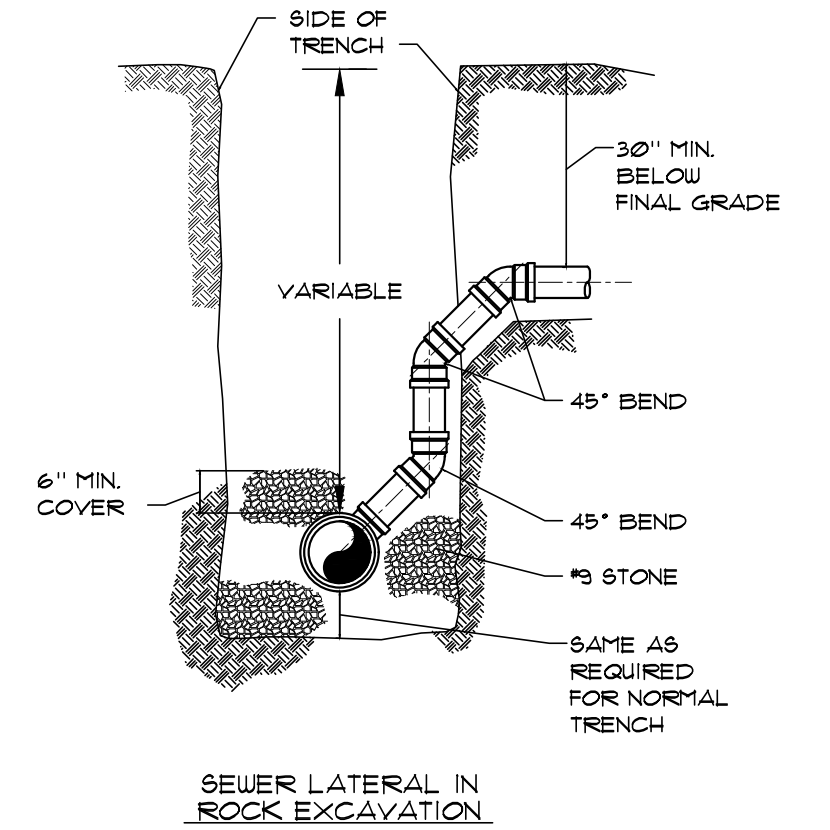


TYPICAL PLAN

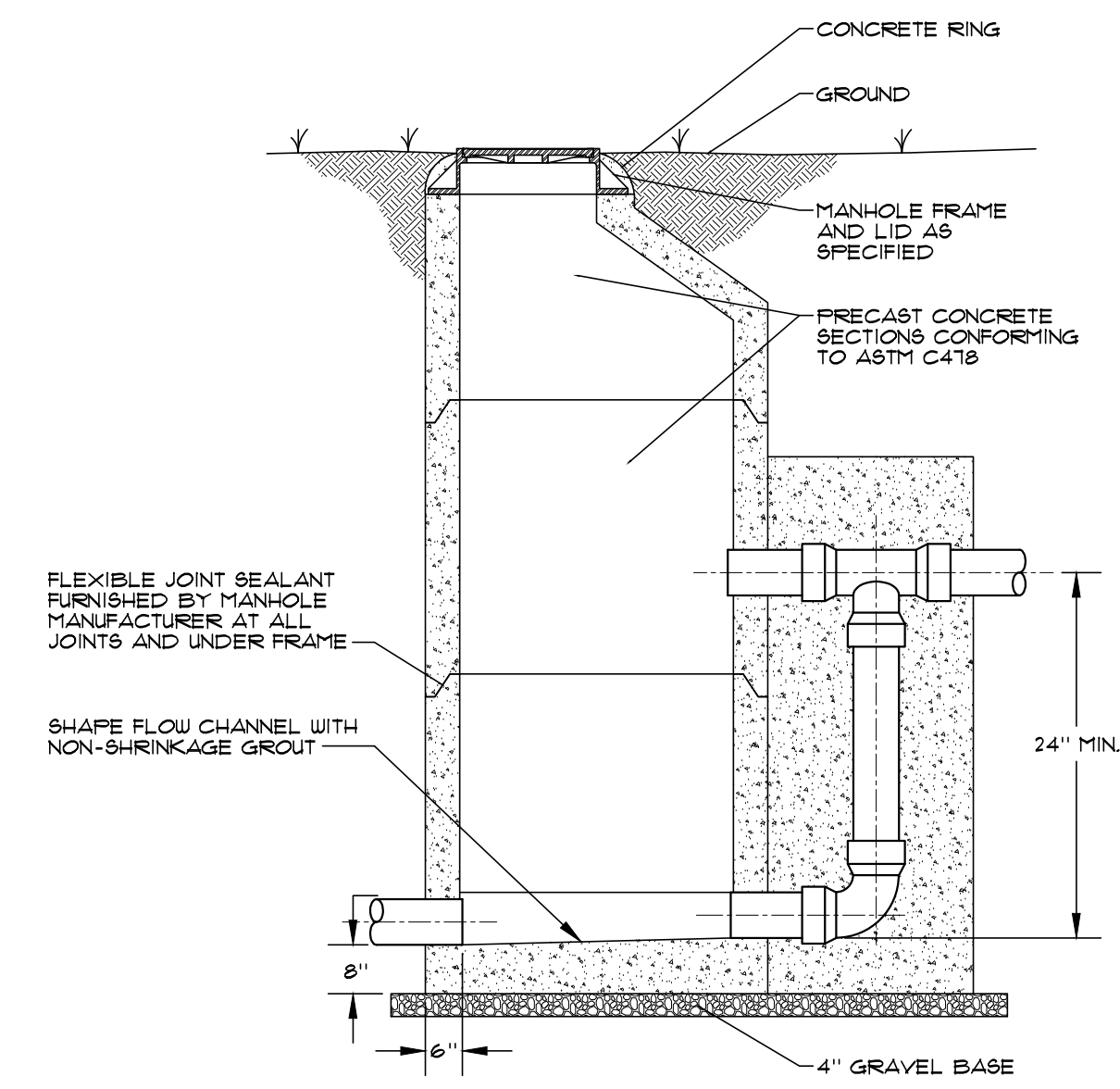


SANITARY SEWER SERVICE LATERAL CONNECTION
SCALE : N.T.S.

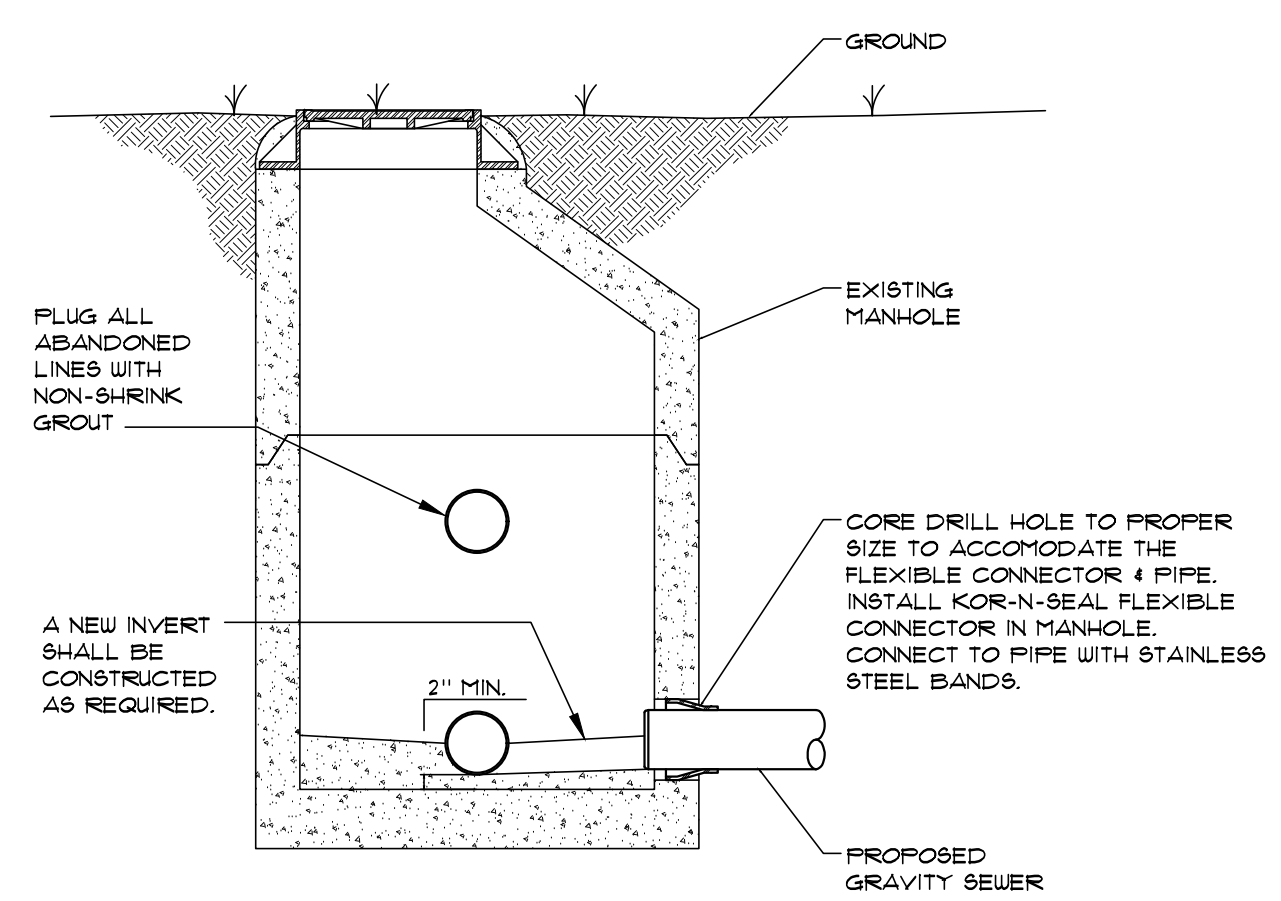
FERRO SHEER COUPLINGS SHALL BE USED TO RECONNECT THE EXISTING LATERALS TO THE NEW SANITARY COLLECTION LINES.



SEWER LATERAL IN ROCK EXCAVATION

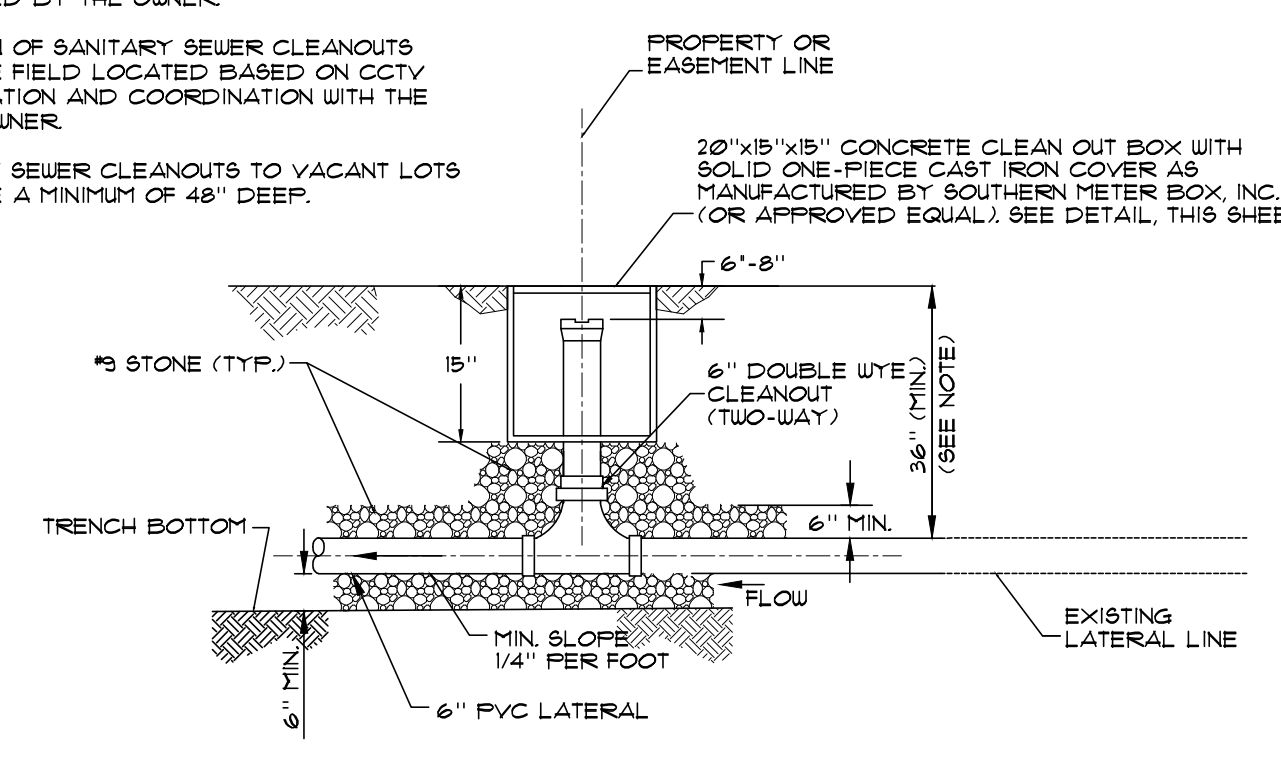


DROP MANHOLE
SCALE : N.T.S.



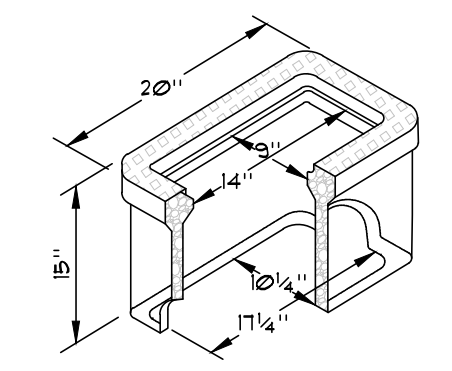
GRAVITY SEWER CONNECTION AT EXISTING MANHOLE
SCALE : N.T.S.

- NOTES :
1. LOCATION OF CLEANOUT MUST BE APPROVED BY OWNER PRIOR TO INSTALLATION, ANY SUBSTITUTION FOR CLEANOUT BOX MUST BE APPROVED BY THE OWNER.
 2. LOCATION OF SANITARY SEWER CLEANOUTS SHALL BE FIELD LOCATED BASED ON CCTV INVESTIGATION AND COORDINATION WITH THE UTILITY OWNER.
 3. SANITARY SEWER CLEANOUTS TO VACANT LOTS SHALL BE A MINIMUM OF 48" DEEP.



CLEANOUT
SCALE : N.T.S.

NOTE : COST TO TRANSITION FROM 6" DOUBLE WYE TO EXISTING LATERAL LINE SHALL BE INCLUDED IN THE COST OF THE CLEANOUT.



CLEANOUT BOX DETAIL
SCALE : N.T.S.

FILE NAME: G:\ENGR\10176.07\PHASE II\CAD\DTY\TBL\GENERAL_SUMMARY.DGN

USER: jgr@enrwell DATE PLOTTED: January 25, 2013

E-SHEET NAME: R00200SU

MicroStation v8.11.7.180

WEST LIBERTY
KY 7 - MAIN STREET
STANDARD DETAILS - SANITARY SEWER

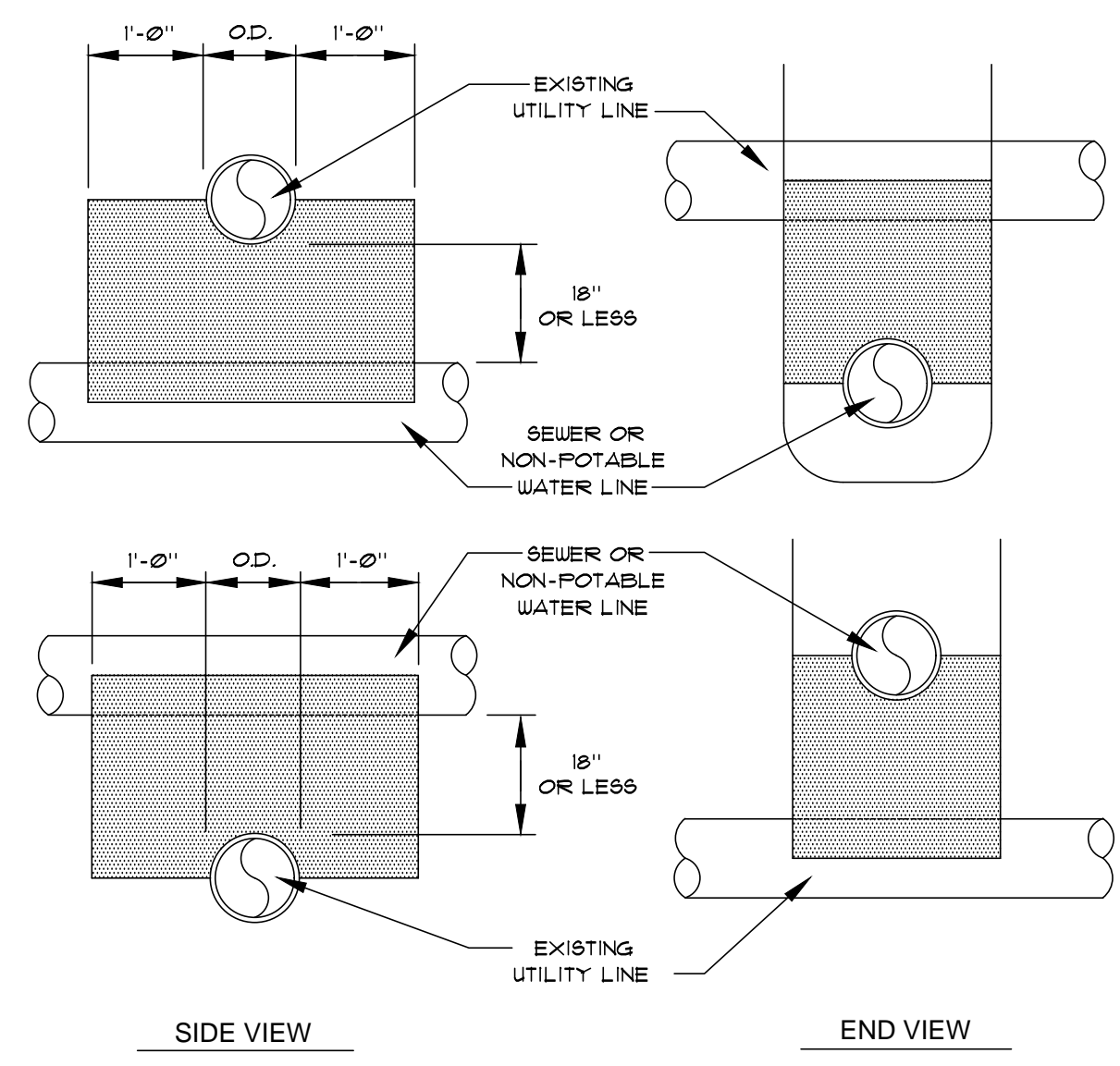
COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-293.10	U27

FILE NAME: G:\ENGR\HD176.07\PHASE11\CAD\TYTIBL\GENERAL SUMMARY.DGN

USER: Jgreenwell
DATE PLOTTED: January 25, 2013

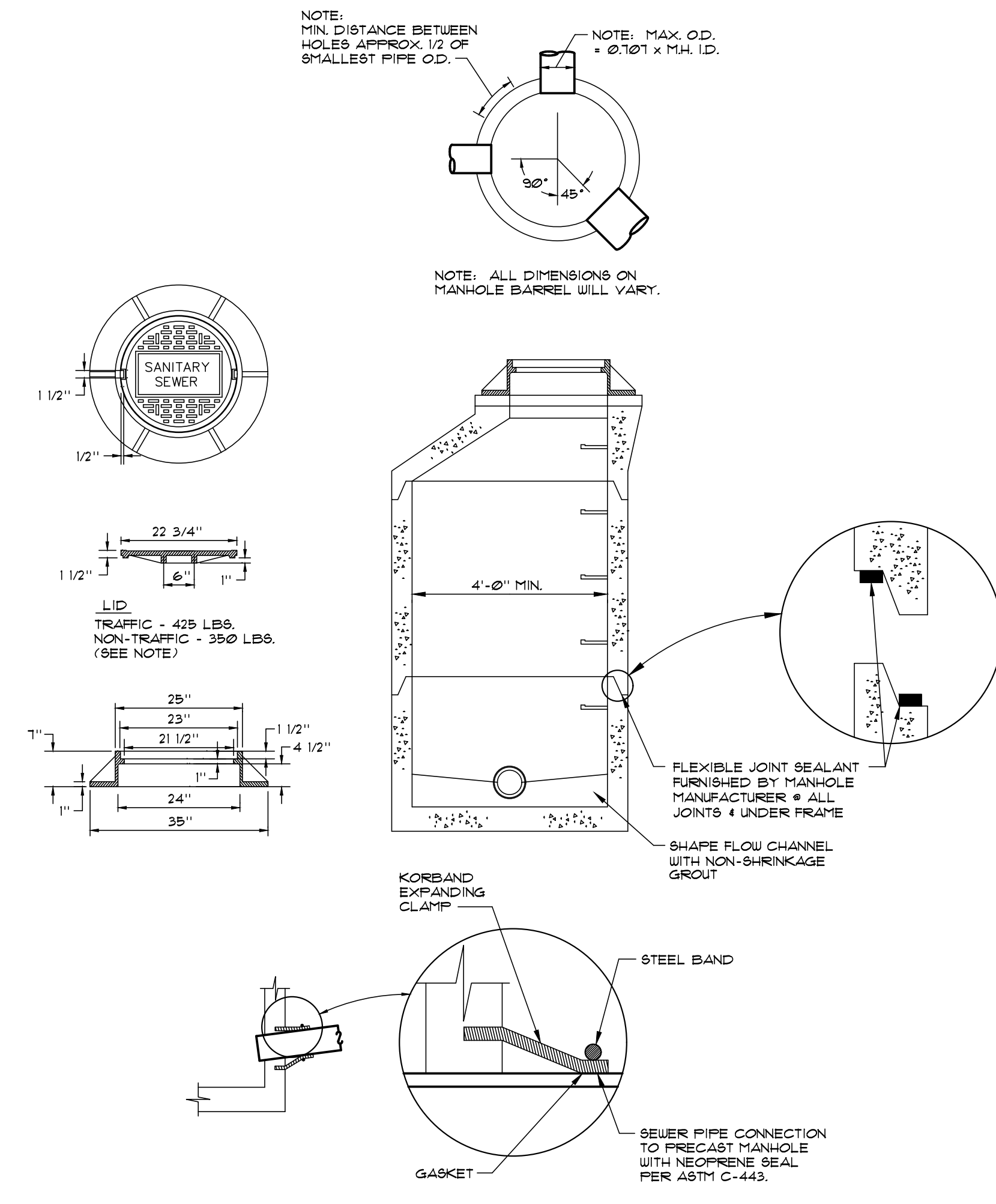
E-SHEET NAME: R0020DSU

MicroStation v8.11.7.180



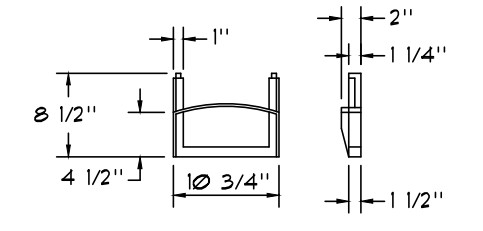
UTILITY CROSSING/ENCASEMENT
SCALE: N.T.S.

- NOTES:
1. CONCRETE ENCASEMENT SHALL BE USED WHEN CLEARANCE BETWEEN SEWER OR NON-POTABLE WATER LINE AND UTILITY LINE IS 18" OR LESS.
 2. WHEN ENCOUNTERING UTILITY LINE WITH SEPARATION LESS THAN 18" VERTICAL OR 10"-0" HORIZONTAL, CONCRETE ENCASEMENT SHALL BE USED. FULL SECTION OF SEWER OR NON-POTABLE WATER LINE SHALL BE CENTERED UNDER UTILITY LINE TO ACHIEVE MAXIMUM JOINT DISPLACEMENT.
 3. CONCRETE ENCASEMENT IS NOT A SEPARATE PAY ITEM.

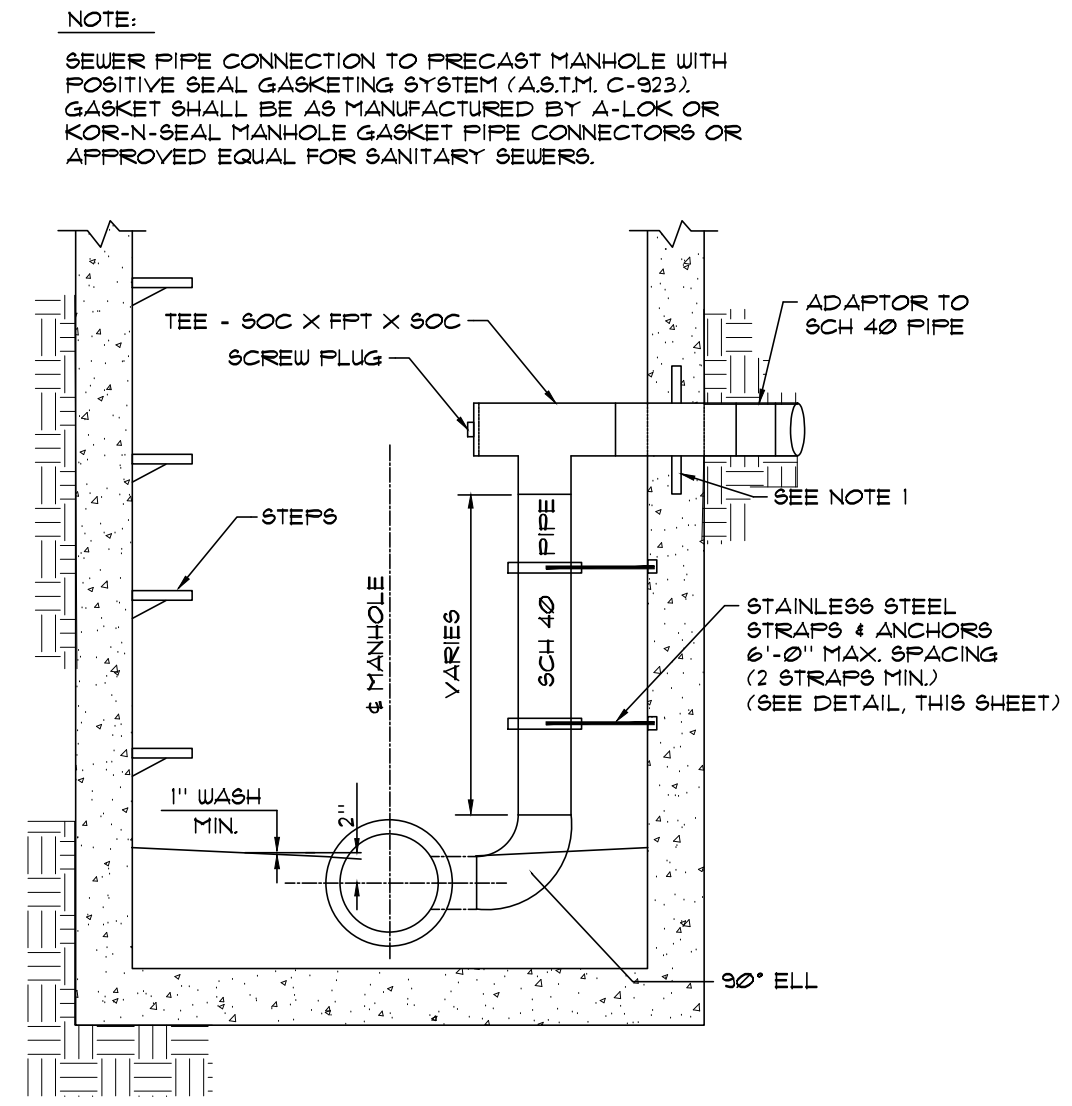


PRECAST MANHOLE
SCALE: N.T.S.

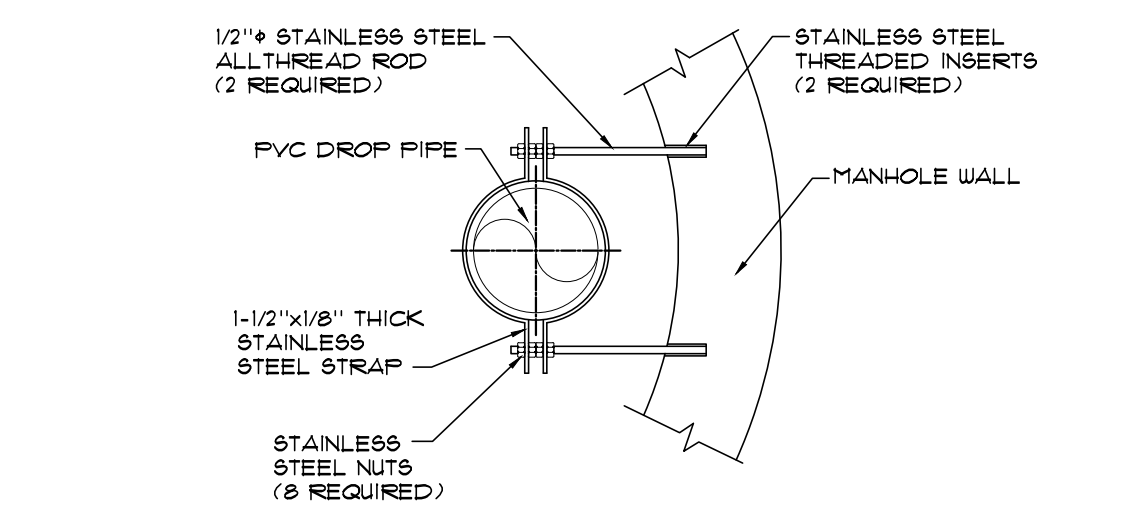
NOTE: ALL LIDS TO BE TRAFFIC RATED.



MANHOLE STEPS
SCALE: N.T.S.



FORCE MAIN CONNECTION AT MANHOLE
SCALE: N.T.S.



FORCE MAIN STAINLESS STEEL STRAP & ANCHOR
SCALE: N.T.S.

WEST LIBERTY
KY 7 - MAIN STREET
STANDARD DETAILS - SANITARY SEWER

PROPOSAL BID ITEMS

REVISED ADDENDUM #1: 12-1-17

171255

Page 1 of 4

Report Date 12/1/17

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	3,064.00	TON		\$	
0020	00005		GEOGRID REINFORCEMENT FOR SUBGRADE	6,029.00	SQYD		\$	
0030	00020		TRAFFIC BOUND BASE	1,000.00	TON		\$	
0040	00078		CRUSHED AGGREGATE SIZE NO 2	3,561.00	TON		\$	
0050	00100		ASPHALT SEAL AGGREGATE	6.56	TON		\$	
0060	00103		ASPHALT SEAL COAT	.78	TON		\$	
0070	00190		LEVELING & WEDGING PG64-22	1,386.00	TON		\$	
0080	00214		CL3 ASPH BASE 1.00D PG64-22	3,200.00	TON		\$	
0090	00388		CL3 ASPH SURF 0.38B PG64-22	820.00	TON		\$	
0100	02677		ASPHALT PAVE MILLING & TEXTURING	87.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0110	01000		PERFORATED PIPE-4 IN	258.00	LF		\$	
0120	01740		CORED HOLE DRAINAGE BOX CON-4 IN	43.00	EACH		\$	
0130	01810		STANDARD CURB AND GUTTER	3,526.50	LF		\$	
0140	01875		STANDARD HEADER CURB	182.00	LF		\$	
0150	02101		CEM CONC ENT PAVEMENT-8 IN	776.50	SQYD		\$	
0160	02159		TEMP DITCH	1,150.00	LF		\$	
0170	02200		ROADWAY EXCAVATION	5,394.00	CUYD		\$	
0180	02203		STRUCTURE EXCAV-UNCLASSIFIED	12.00	CUYD		\$	
0190	02242		WATER (FOR DUST CONTROL)	200.00	MGAL		\$	
0200	02351		GUARDRAIL-STEEL W BEAM-S FACE	137.50	LF		\$	
0210	02367		GUARDRAIL END TREATMENT TYPE 1	1.00	EACH		\$	
0220	02381		REMOVE GUARDRAIL	190.00	LF		\$	
0230	02429		RIGHT-OF-WAY MONUMENT TYPE 1	20.00	EACH		\$	
0240	02430		RIGHT-OF-WAY MONUMENT TYPE 1A	8.00	EACH		\$	
0250	02432		WITNESS POST	10.00	EACH		\$	
0260	02551		CONCRETE-CLASS A FOR STEPS	2.16	CUYD		\$	
0270	02555		CONCRETE-CLASS B	8.00	CUYD		\$	
0280	02562		TEMPORARY SIGNS	259.50	SQFT		\$	
0290	02585		EDGE KEY	136.00	LF		\$	
0300	02599		FABRIC-GEOTEXTILE TYPE IV	8,706.00	SQYD		\$	
0310	02600		FABRIC GEOTEXTILE TY IV FOR PIPE	5,667.00	SQYD	\$2.00	\$	\$11,334.00
0320	02619		HANDRAIL-TYPE A	20.00	LF		\$	
0330	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0340	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0350	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0360	02690		SAFELOADING	11.70	CUYD		\$	
0370	02701		TEMP SILT FENCE	1,150.00	LF		\$	
0380	02703		SILT TRAP TYPE A	4.00	EACH		\$	
0390	02704		SILT TRAP TYPE B	4.00	EACH		\$	
0400	02705		SILT TRAP TYPE C	4.00	EACH		\$	
0410	02706		CLEAN SILT TRAP TYPE A	12.00	EACH		\$	

PROPOSAL BID ITEMS

REVISED ADDENDUM #1: 12-1-17

171255

Page 2 of 4

Report Date 12/1/17

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0420	02707		CLEAN SILT TRAP TYPE B	12.00	EACH		\$	
0430	02708		CLEAN SILT TRAP TYPE C	12.00	EACH		\$	
0440	02720		SIDEWALK-4 IN CONCRETE	1,412.50	SQYD		\$	
0450	02726		STAKING	1.00	LS		\$	
0460	05952		TEMP MULCH	20,390.00	SQYD		\$	
0470	05953		TEMP SEEDING AND PROTECTION	11,195.00	SQYD		\$	
0480	05963		INITIAL FERTILIZER	.20	TON		\$	
0490	05964		20-10-10 FERTILIZER	.34	TON		\$	
0500	05985		SEEDING AND PROTECTION	8,978.00	SQYD		\$	
0510	05990		SODDING	352.00	SQYD		\$	
0520	05992		AGRICULTURAL LIMESTONE	3.71	TON		\$	
0530	06406		SBM ALUM SHEET SIGNS .080 IN	82.50	SQFT		\$	
0540	06407		SBM ALUM SHEET SIGNS .125 IN	34.50	SQFT		\$	
0550	06410		STEEL POST TYPE 1	151.00	LF		\$	
0560	06510		PAVE STRIPING-TEMP PAINT-4 IN	14,545.00	LF		\$	
0570	06514		PAVE STRIPING-PERM PAINT-4 IN	11,249.00	LF		\$	
0580	06571		PAVE MARKING-PAINT PARKING LOT	324.00	LF		\$	
0590	06574		PAVE MARKING-THERMO CURV ARROW	1.00	EACH		\$	
0600	06575		PAVE MARKING-THERMO COMB ARROW	1.00	EACH		\$	
0610	06600		REMOVE PAVEMENT MARKER TYPE V	54.00	EACH		\$	
0620	10020NS		FUEL ADJUSTMENT	6,288.00	DOLL	\$1.00	\$	\$6,288.00
0630	10030NS		ASPHALT ADJUSTMENT	15,795.00	DOLL	\$1.00	\$	\$15,795.00
0640	20071EC		JOINT ADHESIVE	5,000.00	LF		\$	
0650	21289ED		LONGITUDINAL EDGE KEY	2,848.00	LF		\$	
0660	22664EN		WATER BLASTING EXISTING STRIPE	7,888.00	LF		\$	
0670	23158ES505		DETECTABLE WARNINGS	512.00	SQFT		\$	
0680	24489EC		INLAID PAVEMENT MARKER	126.00	EACH		\$	
0690	24631EC		BARCODE SIGN INVENTORY	14.00	EACH		\$	
0700	24814EC		PIPELINE INSPECTION	3,453.00	LF		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0710	00521		STORM SEWER PIPE-15 IN	287.00	LF		\$	
0720	00522		STORM SEWER PIPE-18 IN	2,340.00	LF		\$	
0730	00524		STORM SEWER PIPE-24 IN	592.00	LF		\$	
0740	00528		STORM SEWER PIPE-36 IN	51.00	LF		\$	
0750	00529		STORM SEWER PIPE-42 IN	183.00	LF		\$	
0760	01202		PIPE CULVERT HEADWALL-15 IN	1.00	EACH		\$	
0770	01204		PIPE CULVERT HEADWALL-18 IN	1.00	EACH		\$	
0780	01214		PIPE CULVERT HEADWALL-42 IN	2.00	EACH		\$	
0790	01480		CURB BOX INLET TYPE B	30.00	EACH		\$	
0800	01484		CURB BOX INLET TYPE B-T	2.00	EACH		\$	
0810	01544		DROP BOX INLET TYPE 11	2.00	EACH		\$	
0820	01559		DROP BOX INLET TYPE 13G	3.00	EACH		\$	
0830	01568		DROP BOX INLET TYPE 13S	2.00	EACH		\$	
0840	01580		DROP BOX INLET TYPE 15	1.00	EACH		\$	
0850	01642		JUNCTION BOX-18 IN	1.00	EACH		\$	

PROPOSAL BID ITEMS

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Section: 0004 - UTILITY - GASLINE RELOCATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0860	16008		G ENCASEMENT STEEL OPEN CUT RANGE 1	87.00	LF		\$	
0870	16015		G PIPE POLYETHYLENE/PLASTIC 02 INCH	1,590.00	LF		\$	
0880	16017		G PIPE POLYETHYLENE/PLASTIC 04 INCH	431.00	LF		\$	
0890	16022		G PIPE SPECIAL (1 1/4-IN)	58.00	LF		\$	
0900	16031		G SERVICE LONG SIDE 1 OR 1-1/4 INCH	1.00	EACH		\$	
0910	16034		G SERVICE LONG SIDE 3/4 INCH	5.00	EACH		\$	
0920	16039		G SERVICE SHORT SIDE 3/4 INCH	13.00	EACH		\$	
0930	16048		G TIE-IN SPECIAL (1 1/4-IN)	1.00	EACH		\$	
0940	16049		G VALVE POLYETHYLENE/PLASTIC 02 INCH	3.00	EACH		\$	
0950	16051		G VALVE POLYETHYLENE/PLASTIC 04 INCH	5.00	EACH		\$	
0960	16056		G VALVE SPECIAL (1 1/4-IN)	1.00	EACH		\$	
0970	16056		G VALVE SPECIAL (1-IN)	1.00	EACH		\$	
0980	16084		G TIE-IN W/BYPASS POLY/PLAS 02 INCH	1.00	EACH		\$	
0990	16086		G TIE-IN W/BYPASS POLY/PLAS 04 INCH	2.00	EACH		\$	

Section: 0005 - SEWER

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1000	15000		S BYPASS PUMPING	2.00	EACH		\$	
1010	15060		S FORCE MAIN PVC 06 INCH	180.00	LF		\$	
1020	15086		S LATERAL CLEANOUT	9.00	EACH		\$	
1030	15088		S LATERAL LONG SIDE 06 INCH	1.00	EACH		\$	
1040	15090		S LATERAL SHORT SIDE 06 INCH	8.00	EACH		\$	
1050	15091		S LATERAL SPECIAL (IDENTIFY, ASSESSMENT & INSPECT LATERALS)	1.00	EACH		\$	
1060	15092		S MANHOLE	7.00	EACH		\$	
1070	15093		S MANHOLE ABANDON/REMOVE	6.00	EACH		\$	
1080	15095		S MANHOLE CASTING STANDARD	10.00	EACH		\$	
1090	15099		S MANHOLE TAP EXISTING	1.00	EACH		\$	
1100	15101		S MANHOLE WITH DROP	2.00	EACH		\$	
1110	15112		S PIPE PVC 08 INCH	1,070.00	LF		\$	
1120	15570		S MANHOLE INST	1.00	EACH		\$	
1130	15576		S MANHOLE WITH DROP INST	1.00	EACH		\$	

Section: 0006 - LIGHTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1140	04740		POLE BASE	9.00	EACH		\$	
1150	04820		TRENCHING AND BACKFILLING	2,000.00	LF		\$	
1160	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	8.00	EACH		\$	
1170	21543EN		BORE AND JACK CONDUIT	557.00	LF		\$	

PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1180	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	2,550.00	LF		\$	

Section: 0007 - WATERLINE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1190	14003		W CAP EXISTING MAIN (REVISED: 12-1-17)	3.00	EACH		\$	
1200	14012		W ENCASMENT STEEL OPEN CUT RANGE 1	48.00	LF		\$	
1220	14015		W ENCASMENT STEEL OPEN CUT RANGE 4	52.00	LF		\$	
1230	14019		W FIRE HYDRANT ASSEMBLY	2.00	EACH		\$	
1240	14021		W FIRE HYDRANT REMOVE	2.00	EACH		\$	
1250	14028		W METER 3/4 INCH	20.00	EACH		\$	
1260	14039		W PIPE DUCTILE IRON 12 INCH (REVISED: 12-1-17)	1,370.00	LF		\$	
1270	14056		W PIPE PVC 02 INCH	75.00	LF		\$	
1280	14059		W PIPE PVC 06 INCH (REVISED: 12-1-17)	2,092.00	LF		\$	
1290	14062		W PIPE PVC 12 INCH (REVISED: 12-1-17)	357.00	LF		\$	
1300	14080		W SERV PE/PLST LONG SIDE 3/4 IN	11.00	EACH		\$	
1310	14085		W SERV PE/PLST SHORT SIDE 3/4 IN	17.00	EACH		\$	
1320	14086		W SERVICE SPECIAL (PE/PLST LONG SIDE 1 1/4 INCH)	1.00	EACH		\$	
1330	14089		W TAPPING SLEEVE AND VALVE SIZE 1 (8-IN OR LESS)	1.00	EACH		\$	
1340	14090		W TAPPING SLEEVE AND VALVE SIZE 2 (GREATER THAN 8-IN) (REVISED: 12-1-17)	2.00	EACH		\$	
1350	14094		W TIE-IN 06 INCH (REVISED: 12-1-17)	2.00	EACH		\$	
1360	14097		W TIE-IN 12 INCH (REVISED: 12-1-17)	2.00	EACH		\$	
1370	14102		W VALVE 02 INCH	2.00	EACH		\$	
1380	14104		W VALVE 04 INCH	1.00	EACH		\$	
1390	14105		W VALVE 06 INCH	7.00	EACH		\$	
1400	14108		W VALVE 12 INCH	4.00	EACH		\$	
1410	14131		W METER SPECIAL (VARIOUS SIZES) (REVISED: 12-1-17)	6.00	EACH		\$	

Section: 0008 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1420	02568		MOBILIZATION	1.00	LS		\$	
1430	02569		DEMOBILIZATION	1.00	LS		\$	